## EXHIBIT 3

PageID: 80186

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                  UNITED STATES DISTRICT COURT
                     DISTRICT OF NEW JERSEY
 2
                         MDL NO. 2875
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       ----X
       IN RE: VALSARTAN, LOSARTAN, AND
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       IRBESARTAN PRODUCTS LIABILITY
       LITIGATION
 5
       THIS DOCUMENT RELATES TO:
 6
       All Actions
 7
       Case No. 1:19-md-02875-RBK-SAK
       ----X
 8
 9
                VIDEO DEPOSITION OF : RON NAJAFI
10
                        February 3, 2022
11
12
           TRANSCRIPT of the videotaped deposition of the
13
       above-named witness, called for Oral Examination in
       the above-entitled matter, said deposition being
14
       taken pursuant to Superior Court Rules of Civil
15
16
       Practice and Procedure, by and before MICHELLE L.
17
       DAWKINS, CSR, RPR, a Certified Court Reporter and
18
       Notary Public of the State of New Jersey, held
       REMOTELY VIA ZOOM on Thursday, February 3, 2022,
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       commencing at 9:09 a.m. Pacific Standard Time.
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THE VIDEOGRAPHER: Good morning. We are going on the record at 9:09 a.m. Pacific time on February 3, 2022. This is Media Unit 1 of the video recorded deposition of Ron Najafi, PhD in regards to the valsartan/losartan litigation which is found in United States District Court, district of New Jersey, NDL No. 2875. My name is William Miller from the firm Veritext Legal Solutions and I am the videographer. The court reporter is Michelle Dawkins from the firm Veritext Legal Solutions. All counsel is noted on the stenographic record. Will the court reporter please swear in the witness. You're on mute, Michelle.

THE COURT REPORTER: Sorry. Good morning. My name is Michelle Dawkins and I am the court reporter. The attorneys participating in this deposition acknowledge that I am not physically present in the deposition room and that I will be reporting this deposition remotely.

They further acknowledge that in lieu of an oath administered in person, I will administer the oath remotely. The parties and their counsel consent to this arrangement and waive any objections to this manner of reporting.

Please indicate your agreement by

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	Page 10
1	stating your name and your agreement on the record.
2	MR. TRISCHLER: Clem Trischler. So
3	agreed on behalf of the defendants.
4	MR. NIGH: Daniel Nigh, agreed on
5	behalf of the plaintiffs.
6	THE COURT REPORTER: Would the witness
7	please state his full name.
8	THE WITNESS: My name is Ron Najafi.
9	THE COURT REPORTER: Mr. Najafi, would
10	you please raise your right hand. Do you solemnly
11	swear or affirm the testimony you will give at this
12	deposition will be the truth, the whole truth and
13	nothing but the truth?
14	THE WITNESS: Yes, I do.
15	THE COURT REPORTER: Thank you.
16	DIRECT EXAMINATION
17	BY MR. TRISCHLER:
18	Q Sir, let me start by saying good
19	morning. I think it's morning where you're located,
20	so I'll say good morning to you.
21	A Good morning to you.
22	Q Thank you. My name is Clem Trischler.
23	I am an attorney. I represent one of many
24	defendants in litigation that's pending in the
25	United States District Court for the district of New

Page 11 1 Jersey involving valsartan. 2. I understand that you've been identified and 3 designated an expert witness in this litigation; is that correct? 4 5 Α That's correct. 6 0 I'd like to maybe start today by 7 covering some basic concepts and see if we can get an agreement on a few basic points. Okay? 8 9 Α Okay. 10 Number one, it is an established fact 0 11 that all drug products contain impurities, agreed? 12 Yes, they do. Α 13 0 A drug or a drug substance is not 14 considered misbranded simply because it contains 15 impurities, true? 16 MR. NIGH: Form objection. Outside 17 the scope. 18 A drug product contains impurities 19 that are harmless and they could also contain 20 impurities that could be extremely hazardous. 21 That wasn't my question, sir. See if 2.2 you can listen to my question and give me an answer 23 to my question, please. 24 A drug product is not considered misbranded 2.5 simply because it contains impurities; isn't that

	Page 12
1	true?
2	MR. NIGH: Form objection. Outside
3	the scope.
4	A A drug, as I mentioned to you,
5	Mr. Trischler, drug product contains impurities that
6	could be harmless or could be hazardous.
7	Q Is a drug product considered
8	misbranded under federal law merely because it
9	contains impurities?
10	MR. NIGH: Form objection. Outside
11	the scope.
12	A A drug product, as I mentioned,
13	contains impurities that could be harmless or could
14	be hazardous and they could be misbranded because of
15	the hazardous nature of the impurities.
16	Q If a drug product contains impurities
17	that are not harmful to public health, are those
18	drug products considered to be misbranded?
19	A No.
20	MR. NIGH: Form objection. Outside
21	the scope.
22	Q If a drug substance every drug
23	substance ever made in America has impurities,
24	correct?
25	A Every drug product that is made in

Page 13 America or anywhere on the planet could contain 1 2. impurities that are harmless or could be hazardous. 3 I didn't ask you that question, sir. I said, isn't it a fact that every drug product ever 4 5 made in America or on the planet does contain some 6 impurities? 7 MR. NIGH: He answered the question. He answered the question previously and it's outside 8 9 the scope. 10 MR. TRISCHLER: It's not an 11 appropriate objection. It's not an appropriate 12 instruction, if that's what it was. My question 13 stands -- excuse me. And I'd like an answer. MR. NIGH: Objection. Asked and 14 15 answered. 16 MR. TRISCHLER: I don't know how you 17 know that, since I haven't asked it yet, but let me 18 try again. 19 Every drug product ever made in the 0 20 United States made for sale in the United States of 21 America contains some impurities. Can we agree on 2.2 that? 23 MR. NIGH: Objection. Asked and 24 answered. 2.5 Α I already responded to that question,

Page 14 1 sir. 2. 0 I'm asking it again, then, sir. I ask 3 you to answer my question, sir. Sir, I will give you the same answer. 4 Α 5 What is the answer to my question? 0 6 Α I just gave you the answer to your 7 question. Every drug product or every drug substance that's produced on the planet contains 8 9 harmless and harmful impurities. 10 If the mere presence of an impurity 11 rendered a drug product adulterated and misbranded, 12 then virtually pharmaceutical produced today would 13 be deemed misbranded and adulterated, do you agree? MR. NIGH: Form objection. Outside 14 15 the scope. 16 I did not say that. Α I said --17 I didn't -- sir, let me stop you. Q Ι 18 didn't ask you what you said. I asked you a 19 question. Do you understand that this is a question 20 and answer session and I am permitted to ask you 21 questions and you're required to give me responsive 2.2 answers to those questions; is that a concept you 2.3 understand? 24 MR. NIGH: Mr. Trischler, you just now interrupted the witness in the middle of his answer. 25

	Page 15
1	It wasn't completed.
2	Q Do you understand that I am entitled
3	to answers to my questions, sir?
4	MR. NIGH: Do you understand not to
5	interrupt the witness when he's answering your
6	question?
7	MR. TRISCHLER: I'm not going to get
8	into a colloquy with you. I'm talking to the
9	witness. Do you understand
LO	MR. NIGH: Well, please don't
L1	interrupt the witness in the middle of his
L2	question I mean, in the middle of his answer.
L3	Q Do you understand that I'm entitled to
L4	responsive answers to my question, sir?
L5	A Clem, every drug product or drug
L6	substance that's produced on the planet contains
L7	harmless or harmful impurities. They could be
L8	misbranded if it contains extremely harmful
L9	impurities and they could not be misbranded if they
20	are not harmful.
21	Q So then you would agree with me that
22	the mere presence of some impurity does not render a
23	drug product misbranded or adulterated, right?
24	MR. NIGH: Scope.
25	A I already responded to your question.

	Page 16
1	I think you should I think it's the answer is
2	clear.
3	Q Do you agree that the mere presence of
4	an impurity does not render a drug adulterated or
5	misbranded?
6	MR. NIGH: Objection. Scope.
7	A I responded to your question.
8	Q Sir, I am entitled to an answer to the
9	question. I don't know if there was an internet
10	issue. If there is was an answer, I didn't hear it.
11	A There is no internet issues.
12	Q I said I didn't hear. If there was an
13	answer, I did not hear it.
14	MR. NIGH: Was there an answer to the
15	last question, Michelle?
16	A I already answered it.
17	Q I'm not talking to you, sir.
18	A Let's move on to the next question.
19	(The previous testimony as requested
20	was read by the reporter.)
21	MR. TRISCHLER: Okay. Thank you.
22	Q It's not clear to me, so I would like
23	an answer, please. Is it your testimony that the
24	mere presence of an impurity renders a drug
25	misbranded or adulterated; yes or no?

Page 17 Again, it's outside the 1 MR. NIGH: 2. scope. 3 I already responded to your question. Α Just look at the record. Go back to the records and 4 5 you'll see my answer. So are you refusing to answer my 6 7 question, sir? I already responded to your question. 8 Α 9 0 No, you didn't. No you didn't. Ι 10 asked a different question, sir. This is going to 11 be a long day or else we're going to come back and 12 I'm going to get fees, because Magistrate Judge 13 Menaski has talked about obstructionist witnesses 14 like this. So if you don't want to answer the 15 question, that's fine. We'll halt the deposition, 16 I'll get fees for it, and we'll come back here 17 again. 18 The question is pretty simple. Is it your 19 position that the mere presence of an impurity 20 renders a drug adulterated or misbranded; yes or no? 21 MR. NIGH: Object to the colloguy 2.2 given to the witness. Disagree, but I will ask the 23 witness to answer this question again. 24 Α Again, this is not a "yes" or "no" 25 answer, because mere presence of an impurity, if

Page 18 it's safe impurity if it's determined safe, then 1 it's not misbranded, but if it's an unsafe impurity 3 then, yes, it is misbranded. Does FDA require the supplier of an 4 0 5 active pharmaceutical ingredient used in generic 6 drug to use the same synthetic process used by the 7 RLB holder? MR. NIGH: Form objection. 8 9 Α The FDA does not require the generic 10 manufacturers to use exact procedure of the branded 11 druq. 12 When you say "exact procedure," my 13 question as are they required to use the same 14 synthetic process for developing and producing API. 15 The answer is no, correct? 16 MR. NIGH: Form objection. Outside 17 the scope. 18 Mr. Trischler, am I pronouncing your Α 19 name right? 20 Close enough, sir. Q Mr. Trischler, FDA does not require a 21 Α 2.2 generic manufacturer to use exact chemical procedure 23 as the brand to synthesize the generic drug. 2.4 0 And because the synthetic process used 2.5 by an RLD holder in a generic manufacturer may be

	rage 19
1	different, it's not uncommon or unexpected that the
2	API used in an ANDA will have a different impurity
3	profile than the reference listed drug, is it?
4	MR. NIGH: Form objection. Outside
5	the scope.
б	A It is entirely possible that the
7	impurity profile of the generic drug may be
8	different.
9	Q In fact, there's absolutely no
10	requirement anywhere in the FDA regulations that
11	mandate that an RLD match or mirror the impurity
12	profile of the generic alternative, is there?
13	A The FDA does not require that the
14	generic drug manufacturer to match every impurity of
15	the branded drug.
16	However, they do require that the impurity is
17	to be determined safe. They do require that a
18	generic drug does sufficient due diligence to
19	determine the synthetic path is safe.
20	Q A generic manufacturer can establish
21	and satisfy FDA requirements for bio equivalents
22	even where the impurity profiles between the RLD and
23	the generic equivalent product are different,
24	correct?
25	A Could you repeat your question.

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Page 20 1 Yes. A generic drug manufacturer can 0 2. establish and satisfy FDA requirements for bio 3 equivalents even where the impurity profiles between the RLD and generic equivalent product are 4 5 different. The generic drugs have to establish 6 Α 7 bio equivalence when they make a generic drug. 8 0 Right. And you can --9 Α A bio equivalence does not refer to, 10 you know, impurity profile. 11 I understand. My question was bio 12 equivalence can be established in having impurity 13 profiles that match as between the reference listed 14 drug and the generic applicant, correct? 15 Α No, I didn't say that. 16 0 Then answer the question. 17 Α Repeat your question please. 18 I said that a generic drug 0 Sure. 19 manufacturer can meet FDA requirements for bio 20 equivalence without having an impurity profile that 21 matches the impurity profile of the reference listed 2.2 drug. 23 The generic manufacturer can establish Α 24 bio equivalence or a synthetic process irrespective of whether they have -- what kind of impurities they 2.5

Page 21 1 They could have harmful impurities, they 2. could have harmless impurities, and they can still 3 establish bio equivalence, but that's irrespective of what kind of impurities they have. 4 5 Does the Food, Drug, and Cosmetic Act 6 contain a definition of an adulterated product? 7 MR. NIGH: Form. Outside the scope. 8 Α To me, adulterated products are 9 products that have been contaminated. 10 Well, I appreciate your definition, 11 but I'm really not interested in it. My question 12 was, does the Food, Drug, and Cosmetic Act contain a 13 definition of what constitutes adulterated product? 14 Α Yes, they do. 15 MR. NIGH: Hold on. Hold on. Object 16 to the colloquy. It's inappropriate. You can 17 answer. 18 Adulterated products are products that Α 19 are mislabeled. They don't have proper label and 20 they could have toxic impurity in it, either 21 intentionally or inadvertently, and they could be 2.2 called adulterated. Have you ever read the definition of 23 24 an adulterated drug product under the Food, Drug, 25 and Cosmetic Act?

	Page 22
1	A Yes, I have.
2	Q Are you familiar with the definition
3	under Section 351 of the Food, Drug, and Cosmetic
4	Act?
5	A I haven't looked at it exactly today,
6	but I am familiar with that.
7	Q Section 351 defined an adulterated
8	drug as one where its strength differs from or its
9	quality impurity fall below the standards set forth
10	in the compendium.
11	A I agree with that.
12	MR. NIGH: Hold on. Was there a
13	question?
14	MR. TRISCHLER: There was.
15	A You just read the definition.
16	Q Right. And you would agree with that
17	definition, right?
18	MR. NIGH: Form objection. Outside
19	the scope.
20	Q You agree with that definition, sir?
21	A If you're reading it from the regs,
22	yes.
23	Q And where there is a USP monograph,
24	any article marketed in the United States must meet
25	the requirements and specifications of the

Page 23 1 monograph. Agreed? 2. Α Would you repeat your question? 3 Where there is a USP monograph, 0 Sure. any drug product marketed in the United States must 4 5 meet the requirements and specifications of that 6 monograph? 7 USP drug is the minimum requirement Α that is required, absolute minimum. Manufacturers 8 9 are required to go above and beyond those 10 requirements. 11 Are they required to meet -- where a 12 monograph exists and applies, are manufacturers 13 required to meet their specifications of the 14 monograph? 15 Α You spoke too fast. You got cut out. 16 Could you repeat? 17 I'll try. Where there is a USP 0 18 monograph that applies to a drug product are 19 manufacturers required to meet those specifications 20 and criteria in the monograph? 21 MR. NIGH: Objection. Asked and 2.2 answered. 23 I answered that question already. Α monograph is the minimum standards and manufacturers 24 2.5 are required to go above and beyond that.

Page 24 Can you cite me an authority for the 1 2. proposition that you just stated, that the USP 3 monograph is a minimum standard? Where is that specified anywhere in the public literature? 4 5 I can't put my fingers on it right 6 now, but I can look it up for you and show you. 7 Well, we'll take multiple breaks 0 during this day and so I'd like you to find me --8 9 Α I will. 10 Let me finish, please. Can I finish, 0 11 please? 12 Absolutely. 13 0 Sir, this is really difficult if we 14 talk over one another. I'll do my best not to talk 15 over you, but please let me finish my statement and 16 my question. 17 I'd like you to cite for me the authority for 18 that novel proposition that you just offered, because I've not seen it. 19 20 I will. Α 21 Hold on. Hold on. MR. NIGH: Hold 2.2 Form objection and now I would object to on. 23 whatever exercise there is that is supposed to do 24 something during the breaks while he's trying to take restroom breaks. We are going far outside the 2.5

Page 25 scope of his opinion and he has authority in his 1 2. expert report if you want to read his certification. 3 Sir, can I respond to that question? Α I think that I can refer you to USP's website and 4 5 under, basically, overview, USP monograph basically articulates that there is a minimum quality 6 7 standards and the companies have to go above and beyond that. 8 9 So I will find that on USP website? 10 You should able to find that on USP Α 11 website, usp.com. Go to about USP and you should be 12 able to find that. Will I find that requirement posted 13 0 14 anywhere else? 15 I don't know. I'm sure there are. Ιf 16 you Google it, you will find it. 17 Is there any requirement anywhere in 18 the USP mandating that a generic equivalent product 19 match or mirror the impurity profile of the RLD? 20 MR. NIGH: Form objection. 21 Α There is the regs -- first of all, USP 2.2 is not a regulatory body. USP is an independent 23 The regs are clear. There is the concept company. 24 of sameness, chemical equivalents, active equivalents, impurity equivalents, and there is the 2.5

matter.

Page 26 concept of bio equivalents, therapeutic equivalents. 1 2. I can't comment on a lot of those things because I 3 am not a physician, but those are all spelled out in the regs and you can look that up. 4 5 Where is the requirement for what you 6 call chemical equivalent, where is that term used in 7 the Food, Drug, and Cosmetic Act or the regulations of the FDA? 8 9 It's cited in my report, sir. Α 10 No, it's not. You don't provide any 0 11 citation for what constitutes chemical equivalents 12 in your report. 13 MR. NIGH: Objection. Hold on. Ι 14 don't know if that was a question. 15 Α I responded to your question. 16 Show me in your report --0 17 Α Look at my report. 18 Show me in your report where there is 0 19 a regulatory definition of what you just called 20 chemical equivalence. You can look at your -- take 21 your time. Look at your report and show me where 2.2 there is a definition of chemical equivalence either 23 in Food, Drug, and Cosmetic Act or regulations in 24 the FDA or in any quidance in the FDA, for that

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Page 27

A Okay. Hang on one second. I've got to get the report from my desk.

THE VIDEOGRAPHER: Would you like to go off the video record or would you like to stay on?

MR. TRISCHLER: I don't care.

Α Okay. I'm back. Sorry. I put this on my computer. Basically, the generic drug manufacturers have an ongoing federal duty of sameness in their product and their reference is reference No. 2. What that refers to is that the identity of the active ingredients need to be exactly the same. The chemical synthesis of the actual ingredients need to be the same. And also, this refers to the impurities that are present need to be impurities that are either established by the brand, established by the USP or impurities that are established by the generic manufacturers; and those impurities, if the generic is using exactly the brand chemical procedure, if they are using the same recipe with the same, basically, various ingredients that they're using; different intermediates, different reagents, if they are using the same, then they should expect to have the same chemical impurities.

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If they are modifying the chemical procedure, in which case in the case of your clients they are modifying their brand's chemical procedure, then they should expect a different chemical impurities. And because they are modifying those chemical procedures and the reagents, then they have an obligation to identify those impurities and determine that they are not genotoxic.

It's a very long winded question to my, basically, one paragraph. It's No. 18 in my expert report.

MR. TRISCHLER: Object and move to strike as nonresponsive.

0 Do you remember what they question was?

MR. NIGH: Hold on. This has already been discussed that it's inappropriate during the deposition. It's already been ruled on to object as nonresponsive. The colloquies that you're giving, Mr. Trischler, have been ruled on previously as inappropriate.

You've also threatened sanctions. That's also been ruled on as being inappropriate. These are all the things that the defendants argued that Mr. Slater was doing that was inappropriate and

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1	now you're doing it yourself after Judge Menaski
2	ruled that all these issues are inappropriate.
3	We've got to put some brakes on this.
4	MR. TRISCHLER: Are you done with your
5	speech, Daniel? I just asked him.
6	MR. NIGH: No, no, no. You can't
7	ask him
8	MR. TRISCHLER: All I am asking is if
9	he remember
10	MR. NIGH: You can't move to strike.
11	It's inappropriate, and the combativeness with this
12	witness is completely inappropriate. It's not just
13	the speech. We can have a conversation with the
14	judge if we need to.
15	MR. TRISCHLER: Are you done?
16	MR. NIGH: No, I'm not done. I don't
17	think you're recognizing it. You're doing so many
18	inappropriate things. We have to not do this. You
19	can't badger this witness.
20	MR. TRISCHLER: If you need to call
21	the judge, go ahead. I welcome it.
22	MR. NIGH: Okay.
23	MR. TRISCHLER: I welcome it.
24	MR. NIGH: Are you going to keep doing
25	the things you're doing?

Page 30 1 MR. TRISCHLER: Because I would love 2. the judge to read this transcript. 3 MR. NIGH: Do you have every intention to keep threatening for sanctions? Do you have 4 5 every intention to keep moving to strike as 6 nonresponsive, because if you do, then we might as 7 well call the judge now, because he's already ruled 8 that that's inappropriate. 9 MR. TRISCHLER: I have already 10 intention of asking relevant questions and I'm 11 hoping to get some responsive answers to those 12 questions. 13 MR. NIGH: Okay. Well, I hope that 14 you stop moving to strike as nonresponsive and 15 threatening sanctions. 16 MR. TRISCHLER: If you want to call 17 the judge, I'd welcome it, because I would love for 18 him to have the opportunity to read this transcript. 19 Α Please repeat your question. 20 You used the term "chemical 0 21 equivalents" and suggested that generic 2.2 manufacturers have an obligation to establish 23 chemical equivalents and my question to you, sir, 24 was where in the Food, Drug, and Cosmetic Act or the regulations of the FDA is the term "chemical 25

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equivalents" anywhere defined and where would that requirement be established? That was what led you to look at your report. That's the question that I'm looking for an answer to.

Okay. Let me go back to my report again, okay. So I'm going to read back from my report, okay. Generic drug manufacturers have an ongoing federal duty of sameness in their product, reference No. 2. The generic manufacturers must demonstrate that their active ingredients are -- and have identical strength quality, purity -- I underlined that purity -- and potency and were applicable other characteristics as the reference listed drug.

(Clarification requested by the reporter.)

I will repeat. Generic drug manufacturers have an ongoing federal duty of sameness, meaning equivalence, in their products. The generic manufacturers must demonstrate that their active ingredients -- in this case active compounds, the compound that's responsible for its therapeutic potential -- are the same as reference listed drug. "Same" here, Mr. Trischler, means identical; identical chemical structure, identical

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molecular weight, identical to every sense of chemical sense. They should have same strength, same quality, purity.

Purity here refers to the chemical purity of the drug and the impurity profiles of those drugs; and both potency. And potency is really a function of, you know, excipients and what excipients it's in and whether it's going to be released properly.

So you get into a -- you know, I could talk about this for a couple hours, but that's what that And I'm referencing No. 2, No. 3, No. 4, these are basically the regs that are there.

And the regs, as you well know, are vague enough and that can be -- you know, they are really the minimum standards. You know there is a concept that they say CGMP. C talks about current good manufacturing practices and "current" means the highest technology, technologies, of today; and the generic are responsible to living up to that standard of the latest standards.

I hope -- that was a long answer to your question. I hope that I answered it.

It was long. It was not an answer to the question, but I'll ask it again.

> Α Well, you know, that's my answer. Ιf

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	Page 33
1	you want, I can repeat the same thing that I just
2	gave you.
3	Q If you could stop talking for a
4	minute, I'll try to ask another question. What you
5	read from was paragraph 18 of your report, correct?
6	A Correct.
7	Q In paragraph 18 the words "chemical
8	equivalent" never appear, do they?
9	A Chemical equivalents
10	Q Do the words chemical equivalent
11	appear?
12	MR. NIGH: No, no, no, no, no, no,
13	no.
14	Mr. Trischler, he was clearly not
15	finished with his answer there. No, no, no. That
16	is completely inappropriate. You can finish your
17	answer, Dr. Najafi.
18	MR. TRISCHLER: He has to answer it
19	first and then he can
20	MR. NIGH: No, he does not. Let him
21	answer the question. Let him answer the question.
22	That's completely inappropriate.
23	MR. TRISCHLER: Now you're saying he
24	can't answer the question?
25	MR. NIGH: You're interrupting the

Page 34 1 witness over and over and over again. He was not 2. done and he was starting to answer your question. 3 He got two words out and you interrupted him; two words out. The video record is very clear on this. 4 5 MR. TRISCHLER: You just said he 6 doesn't have to answer the question. That's what 7 you just said. No, I did not say he doesn't have to 8 Α 9 answer the question. I said he doesn't have to 10 answer it in the way that you want him to answer it 11 at the very beginning of the answer. 12 MR. TRISCHLER: Let's try it again. 13 MR. NIGH: How about you ask the 14 question and don't interrupt him, please. 15 MR. TRISCHLER: Let's try again. 16 MR. NIGH: That's pretty 17 inappropriate. 18 BY MR. TRISCHLER: 19 Do the words "chemically equivalent" 0 20 appear anywhere in paragraph 18 of your report? 21 The word "equivalence" doesn't need to 2.2 appear in No. 18. Sameness is chemical equivalence. Is there a definition of chemical 23 0 24 equivalence in the Food, Drug, and Cosmetic Act? 2.5 А I don't know.

2.5

Page 35 Is there a definition of chemical 1 0 2. equivalence in the regulations established by the 3 FDA? I don't know. 4 Α 5 Is there a -- you used the term 6 "impurity equivalence." Is there a definition of 7 impurity equivalence under the Food, Drug, and Cosmetic Act? 8 9 Α The definition I just read, it's 10 the -- regs are clear the active ingredients need to 11 be the same. They need to be identical. 12 quality, purity; you know, the identity of the drug 13 needs to be identical; potency, those are what 14 chemical equivalence is referring to. Perhaps I'm 15 not giving you the answer you like to hear, but 16 that's the answer. 17 Is impurity equivalence a defined term 18 under the Food, Drug, and Cosmetic Act? 19 Α I gave you my answer, you know. You 20 have to have -- you know, the purity profile need to 21 have -- you either are following the brand procedure 2.2 and recipe, then you're going to end up with the 23 same impurity profile. If you're not following the 24 brand's procedure, you're going to end up with

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different impurity profile. Those impurities can be

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safe, can be harmful.

0 Sir, I didn't ask you any of that. All I simply asked you is you used the term "impurity equivalence" earlier in your testimony and my question is the term impurity equivalence a defined term under the Food, Drug, and Cosmetic Act?

I have to -- you know, I can look that Α up during the break and get back to you.

0 Do you know if the term impurity equivalence is defined in the FDA regulations or FDA quidance?

Purity profile is the same. You know, basically you have to have -- you know, I responded to the question. You're either following the brand's recipe and you get the same purity/impurity profile and the same purity or you're not following brand's procedure.

If you're not following brand's procedure you're going to get a different impurity profile and those impurity profiles could have genotoxic compound in it and it could be non-genotoxic compound in it.

Not my question again, sir. 0 question was simply do you know whether the term that you used "impurity equivalence" is a term that is defined in any FDA guidance document or FDA

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Page 37 1 regulations? 2. Α It may --3 MR. NIGH: Hold on. Form objection. Just give a little bit of time between his question 4 5 and your answer, because I may have an objection, 6 form objection. You can answer. 7 Α It may or may not. 8 0 Does FDA ever establish a requirement 9 that a drug manufacturer identify all impurities in 10 its drug label? 11 Would you repeat your question? Δ 12 Is there any FDA requirement for a 13 drug manufacturer to identify all impurities in its 14 drug label? 15 Α There is a requirement that the 16 manufacturers identify all impurities that are 17 greater than certain percentage, and also there is a 18 requirement that the manufacturers identify any 19 potential genotoxic impurities. And typically those 20 are considered impurities of concern because of 21 their genotoxicity and those impurities are 2.2 predetermined or pre -- sort of predicted by the expert chemist at the manufacturers based on certain 23 ingredients and based on certain chemical structures 24 2.5 that may be used.

		Page 38
1	Q	You know what I mean by labeling?
2	A	Please define it.
3	Q	Labeling is a defined term under the
4	Food, Drug, a	nd Cosmetic Act. Are you familiar with
5	the FDA defin	ition of the term?
б	A	Why don't you give me the FDA
7	definition.	
8	Q	I don't have it in front of me, but
9	for purposes	of today I'm talking about the full
10	prescribing i	nformation provided to prescribers and
11	patients when	their drug is dispensed. Okay?
12	A	Right.
13	Q	Do manufacturers identify impurities
14	in their FDA-	approved labeling?
15	A	They do. Manufacturers do identify
16	impurities	
17	Q	Okay.
18	A	in their drug.
19	Q	As part of your work in this case, did
20	you review th	e Diovan labeling?
21	A	No, I haven't.
22	Q	Have you reviewed the Exforge
23	labeling?	
24	A	No, I haven't.
25	Q	I think I sent some potential exhibits

Page 39 1 ahead of time to the court reporter that we 2. premarked. I think I premarked Exhibit 13 as a Diovan label. 3 I was told -- I got a piece of mail 4 Α 5 I was told not to open it until you guys 6 instruct me. Is that the one you want me to open it? 7 No, I didn't ask you to open anything. 8 0 9 Α Okay. You want me to open it? 10 I have no idea what you're 0 No. 11 talking about. I didn't ask you to do anything. 12 MS. HILTON: Just for the record, 13 Clem, this was something that John Giselson and the 14 Aurobindo counsel had sent to Dr. Najafi and 15 instructed him not to open it. So Dr. Najafi, I 16 think, continue to keep that box unopened until 17 Mr. Giselson and the lawyers for Aurobindo question 18 you. BY MR. TRISCHLER: 19 20 What we marked as Exhibit 13 is a copy 21 of the FDA approved labeling for Diovan. 2.2 Α Okay. 23 Have you ever seen this before, sir? Q 2.4 Α Could you make it bigger? 25 Sir, we just lost THE VIDEOGRAPHER:

Page 40 1 your video feed. 2. MR. NIGH: Is this document going to 3 also be disclosed, because he can look at the full label and I don't see it here yet in the share file. 4 5 MR. TRISCHLER: Frank -- hold on a 6 I'm talking to Frank Stoy from my office 7 who I also think is listening in. Frank, why don't you put in the chat all the things that we 8 9 premarked. 10 Α I can't see this. I need to print 11 So if you could email it to me, Daniel or 12 Rosemarie, that would be great. I can print it so I 13 can look at it. I can't read it. 14 MR. STOY: I could try to draw up 15 these documents in the chat as we use it. There is 16 also a share file link that I think Layne just put 17 in the chat where, Dr. Najafi, you should be able to 18 download the exhibits as they're marked. 19 THE WITNESS: Great. 20 BY MR. TRISCHLER: So you can't see this, is that what 21 2.2 you're telling me? 23 I can't see it, no. I have a -- it's 24 very small on my screen. 2.5 Q Well, then I guess --

	Page 41
1	A What are you referring to?
2	Q Well, I guess hold on. I guess we
3	need to take a break until you can see it.
4	THE VIDEOGRAPHER: Going off the
5	record, yes?
6	MR. TRISCHLER: Yes.
7	THE VIDEOGRAPHER: The time is 9:58.
8	This concludes Media 1.
9	(A recess was taken.)
10	(After the recess the following
11	occurred:)
12	THE VIDEOGRAPHER: The time is now
13	10:14. We are back on the video record. This
14	begins Media 2. And counsel, would you like me to
15	put the document that was on the screen up again?
16	MR. TRISCHLER: Yes, please.
17	BY MR. TRISCHLER:
18	Q Doctor, earlier we had talked about
19	the definition of "adulterated" under the Food, Drug
20	and Cosmetic Act. Would you agree with me that the
21	term "misbranded" is also defined under the statute?
22	MR. NIGH: Objection. Scope.
23	A Would you repeat your question?
24	Q Is the term "misbranded" defined in
25	the Food, Drug, and Cosmetic Act?

Page 42 Objection to form. 1 MR. NIGH: 2. Α Yes, I believe it is defined. 3 And under the Food, Drug, and Cosmetic 0 Act a drug is deemed misbranded when its labeling 4 5 proves to be false or misleading. Can we agree on that definition? 6 7 MR. NIGH: Objection. Scope. 8 Α I agree that a misbranded drug 9 contains something that shouldn't be there. 10 Is that your definition or are you 0 11 suggesting that's the definition provided in the 12 Food, Drug, and Cosmetic Act? 13 MR. NIGH: Objection. Form. 14 Α A misbranded drug is a drug that has false or misleading label. 15 16 Okay. Thank you. So now we are 17 looking at the labeling for Diovan. I have marked 18 it as Exhibit 13. Are you now able to see it? 19 I have it on my second monitor Α Yes. 20 here so I can actually see it. I am going to be 21 looking at my own version, but I have it. I am looking at the same area. 2.2 23 All right. And can you go through this -- the label that we marked as Exhibit No. 13 24 and tell me where Novartis discloses the impurities 25

	Page 43
1	in its Diovan product?
2	A Okay. Let me look.
3	MR. NIGH: Objection. Scope.
4	A So Novartis does not mention this
5	particular genotoxic impurities, because their
6	product didn't have any.
7	Q That wasn't my question. My question
8	was where do they list any impurities.
9	MR. NIGH: Form objection. Scope.
10	A This is not the place where they would
11	list their impurities.
12	Q Is there any requirement that
13	impurities that a drug manufacturer list
14	impurities in its label, FDA labeling?
15	MR. NIGH: Objection. Scope.
16	A I don't think there is any
17	requirement, per se, to list it. You know, if
18	you're looking at this label, you know, the only
19	thing you see is the active compound.
20	Q And that's my question, sir. Does any
21	drug manufacturer list or identify impurities in its
22	labeling?
23	MR. NIGH: Objection. Scope.
24	A I don't believe they do, but they need
25	to file it with the FDA. They need to let FDA know.

Page 44 They need to disclose it on their batch record. 1 2. They need to identify it, all their degradation 3 products, and disclose it to the FDA in their filing. 4 5 In their -- sorry. I thought you were 6 finished. Well, that's true in part, but isn't it 7 also true that all -- that there is an allowance for unknown and unidentified impurities in every drug 8 9 product made and sold in America? 10 MR. NIGH: Was that a question? Yes, sir. 11 MR. TRISCHLER: 12 MR. NIGH: Objection. Scope. 13 А What was your question? I said isn't it true that there is an 14 0 15 allowance for unknown impurities in every drug 16 product? 17 Objection. MR. NIGH: Scope. 18 Α There is an allowance for unknown 19 impurities for every drug, provided they are not 20 genotoxic. 21 And prior to June of 2018, can we 2.2 agree that there was no requirement established by 23 the FDA or specified in USP for nitrosamine-specific 24 testing? 2.5 MR. NIGH: Objection. Scope.

Page 45 1 Are you referring to particular 0 2. valsartan drug? 3 No, I'm talking about any drug. I Α said prior to June of 20-- 18, are you aware of any 4 5 requirement that was established by the FDA or 6 specified in USP that required nitrosamine-specific 7 impurity testing. 8 MR. NIGH: Objection. Scope. 9 Α So my answer is genotoxic compounds 10 need to be identified per the ICH guideline M7, and 11 I refer you to that. They need to be identified and 12 they need to be reported and they need to be 13 controlled and managed and, you know, the whole 14 nine yards. And yes, they would have to be -- they 15 would have to be measured and by various 16 instrumentation: GC, GCMS, LCMS, they need to know 17 the amount; and there was a limit on the amount 18 allowable for various impurities genotoxic impurities, I should say. 19 20 UNIDENTIFIED SPEAKER: Excuse me, 21 counsel. Are you in need of another court reporter 2.2 or are you all set, Michelle? I was just told to 23 join the meeting. 2.4 (Off the record.) 2.5 Q Do you know what the acceptance

Page 46 criteria was for impurities under the valsartan USP 1 2. monograph in the summer of 2018? Objection. Form. 3 MR. NIGH: The acceptance criteria was to produce 4 0 5 the active compound and have impurities that are 6 safe, that are inert and have a safe drug. That was 7 the requirement, and there were impurities that were listed that could potentially be formed and those 8 9 impurities are typically impurities that the brand 10 discloses to the USP or USP also, you know, acquires 11 it through their own research. 12 MR. TRISCHLER: Can you put up what 13 was premarked as Exhibit 17, please. 14 Α Okay. 15 0 Have you seen this document before, 16 sir? 17 Α Hang on a second. Let me -- this is 18 you is -- yes I have. 19 What is it? 0 20 It's a USP, you know, monograph for Α 21 the -- basically, limits of different impurities and 2.2 different -- you know, the acceptance criteria from USP's point of view. 23 2.4 And what's the acceptance criteria for 0 impurities under the USP standards as set forth in 2.5

Page 47 1 Exhibit 17? MR. NIGH: Objection. Scope. 3 Α The acceptance criteria is to have, you know, basically each total -- each individual 4 5 impurities not basically greater than .2 percent or 6 not important .2 or .4, various impurities that are 7 listed, and that would be the accepted criteria. 8 0 If you go to the next page of 9 Exhibit 17, in particular Table 1, it lists the 10 specification and acceptance criteria for unknown 11 impurities is 0.1 percent, correct? 12 MR. NIGH: Objection. Scope. 13 Α Let me. Are you -- okay. Thank you 14 for making it bigger. So, yeah. As you can see 15 from this impurity profile, there is no genotoxic 16 impurity mentioned here. 17 I didn't ask you that, sir. I said, 18 what's the acceptance -- was the criteria in the USP 19 monograph for unknown impurities 0.1 percent. 20 That's the only question I asked. 21 MR. NIGH: Form objection. His answer 2.2 was responsive and I object to the colloquy. could answer. 2.3 2.4 Α The acceptance criteria presupposes 25 that the compound in question has no genotoxic

	Page 48
1	compound such as NDMA or NDEA, presupposes.
2	Q Where does it say that in the USP
3	monograph?
4	A You don't see that on the screen. If
5	it was part of the impurity profile, it would have
6	been mentioned. Since it's not, it means it
7	shouldn't have any.
8	Q Today in 2021 what does the USP for
9	valsartan provide as to the impurity acceptance
10	criteria?
11	MR. NIGH: Objection. Scope.
12	A I haven't looked at the latest I
13	don't have access to that document but, you know, it
14	presupposes there is no genotoxic compound in
15	valsartan.
16	Q I'm puzzled by that, sir. Where is it
17	written anywhere in regulations, guidance or USP
18	acceptance criteria that these numbers presuppose no
19	genotoxic impurities; does anyone say that other
20	than Ron Najafi?
21	MR. NIGH: Object to the colloquy and
22	object to scope.
23	MR. TRISCHLER: There was no colloquy.
24	That was a question.
25	MR. NIGH: No, but beginning part of

Page 49 1 that question started out with, "I'm puzzled." 2. is a colloquy. 3 So this -- I will ask it again, sir. This idea that these acceptance criteria presuppose 4 5 that there is no genotoxic impurities, where is that coming from? 6 7 MR. NIGH: Objection. 8 0 Where --9 MR. NIGH: Form objection. 10 Where is that? 0 11 MR. NIGH: Sorry. Scope. 12 Α I refer you to USP website and 13 specifically there is a specific mention that for 14 impurities known that are suspected carcinogen that 15 are toxic, that are genotoxic, a quantitation and 16 detection limit shall be established. This is USP. 17 It is ICH quideline, ICH M7. It's FDA. You know, 18 if you want me, I can specifically cite you page and 19 the language during the break. 20 We don't have to. I would like that, 21 but we don't have to do it right now, because during 2.2 the last break I did some homework and I would ask 23 you to take a look at Exhibit 27. This is the USP 24 website you were telling me about, right? 2.5 Α Right.

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MR. NIGH: Objection to the colloquy.

Q And you said this is the site where I can go to where there is going to be a statement and public pronouncement that the USP specifications are minimum standards, so look at Exhibit 27 and tell me where it says that, sir.

MR. NIGH: Form objection. Outside the scope. Mischaracterizes his testimony. You can answer.

A I am not sure what you found on USP website, if you found the right page, but I will point that to you later.

Q I'm asking you to take a look at Exhibit 27 and tell me if there is anything on Exhibit 27 that suggests that the USP monographs specifications are minimum standards.

A So, specifically monograph articulates the quality expectation for medicines, including for its identity, strength and performance. They are also described a test to validate that in medicine that its ingredients meet these criteria and basically, I would have to do my own search to show you that specific language. I'm not sure if you have it in the documents you gave to me.

Q Exhibit 27 is a multipage document.

	Page 51
1	Do you want to look at the whole thing and see if
2	there's anything in there to suggest that USP
3	requirements are minimum standards?
4	A If you give me a second, I will look
5	it up for you.
6	Q Sure. Let's go off the record.
7	A Let's go off line.
8	MR. NIGH: Hold on. What are you
9	looking up at this point, Dr. Najafi, the exhibit?
10	You're looking at the exhibit or you're looking it
11	up online?
12	THE WITNESS: No. I want to go online
13	and look up something for him.
14	THE VIDEOGRAPHER: Are we all okay to
15	go off the record?
16	MR. TRISCHLER: Yes.
17	MR. NIGH: No. Do you want him to go
18	online and look this up for you, Mr. Trischler?
19	MR. TRISCHLER: The witness said he
20	wants to, so let's go off the record and we will
21	come back when he's ready.
22	THE VIDEOGRAPHER: The time is 10:32.
23	We are going off the video record.
24	(A recess was taken.)
25	(After the recess the following

	Page 52
1	occurred:)
2	THE VIDEOGRAPHER: The time is 10:46.
3	We are back on the video record. You may proceed.
4	BY MR. TRISCHLER:
5	Q Okay. We just took a break. Doctor,
6	you said that you wanted to take some time to review
7	some material. Have you had the chance to do that?
8	A Okay.
9	Q Have you had the chance to look at
10	whatever it was?
11	A Yes, I did. I did.
12	Q Hold on. That's the only question I
13	asked you right now. Did you talk to anyone while
14	we were on that break?
15	A No, I didn't.
16	Q You reviewed while we were on that
17	break?
18	A Yes.
19	MR. NIGH: It wasn't really a break
20	for Dr. Najafi.
21	Q What did we review at the time we went
22	off the record at your request?
23	A I looked at the USP website.
24	Q Okay. And did you find anything on
25	the USP website suggesting that the USP monographs

Page 53 were minimum standards? 1 2. Α So I looked at exact same page that 3 you're looking at, which is USP.org. It's about USP public policy overview of monograph. 4 5 Did you find anything on that website 6 that we marked the pages of which we marked Exhibit 27 that indicate the USP monographs are 7 minimum standards? 8 9 MR. NIGH: Form objection. That 10 document is just one small part of the entire 11 USP.org. You can see the site map which has much 12 more than this little snippet from the website. 13 MR. TRISCHLER: Is that a proper 14 objection? 15 MR. NIGH: It actually is, because you 16 misrepresented the document, so absolutely it is. 17 MR. TRISCHLER: You know better. 18 MR. NIGH: No. You misrepresented the 19 document in your question just now. 20 Sir, I'm just asking you to tell me 21 where it is published that USP monographs are 2.2 minimum standards. You made that representation. 23 Where is it published? 24 Α Yes. So I would like to point you to 25 No. 1 where it says (1) monograph in your exhibit.

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Monograph articulates the quality expectations, quality expectations to anybody familiar with the art; art of synthesis and manufacturing. It means minimum expectation. That's my understanding and that's my pure understanding.

Those quality expectations, it's like, you know, just like the bar that you have to have, you know, and that's a starting point for a medicine including for its identity, strength, purity, performance. They also describe the tests to validate and so forth and so on, which is all -- you can read it as well. That's the minimum standard.

0 And so if we go back to the monograph itself which we had previously marked, I think, as Exhibit 17, you remember the table told us that under that -- it is the next page. Thank you.

The table told us that the acceptance criteria for unknown impurities was 0.1 percent, right?

> Α Right.

And 0.1 percent, that translates to 0 about 1,000 parts per million, right?

> Α Right.

And if we're talking about a 320 0 milligram tablet and we wanted to convert that to nanograms, that would be about 320,000 nanograms,

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Page 55 1 right? Α 2. Yes. 3 MR. NIGH: Objection. Scope. So, according to USP, whether it's 4 0 5 standards or minimum, maximum or something in between, it's acceptable to have a drug product with 6 unknown impurities of as high as 320 nanograms in a 7 320-milligram tablet, right? 8 9 MR. NIGH: Objection. Scope. 10 Α USP also refers you to ICH guidelines 11 and genotoxic guidelines, and those genotoxic 12 compounds could be as low as, you know, zero. 13 0 But it could be as high as 320,000 14 nanograms? 15 Α Could be as high as that level, but 16 the drug would not probably get approved. 17 Well, it would meet USP acceptance Q 18 criteria, right? 19 No, it wouldn't. Α 20 An unknown impurity -- we just went 0 21 through the table. An unknown impurity in a 2.2 320-milligram drug product can be as high as 320,000 23 nanograms, right? 24 Α Unknown impurities that are not genotoxic can be as high as, you know, 300,000 25

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	Page 57
1	names, please.
2	A Daniel, Rosemarie and Brad.
3	Q Daniel Nigh for the record, Daniel
4	Nigh, Rosemarie what is Rosemaries' last name?
5	A Bogdan.
6	Q And who is the third person you
7	mentioned?
8	A Brad Vaughn.
9	Q I'm sorry. Did you say Vaughn?
10	A Yes. It's the firm Pendley Bovin &
11	Hoffman, I think, or
12	Q All right. Have you also been
13	retained by plaintiff's counsel as a consultant in
14	the ranitidine MDL?
15	MR. NIGH: Hold on. I am going to
16	instruct him not to answer.
17	MR. TRISCHLER: Can I ask on what
18	basis?
19	MR. NIGH: Actually, we have disclosed
20	an opinion, so you can ask him. Go ahead.
21	Q Have you also been retained as a
22	plaintiff's consultant in the ranitidine MDL?
23	A I have been retained as a consultant
24	in the ranitidine matter.
25	Q And in this litigation, the valsartan

Page 58 cases, do you understand that claims have been 1 2. brought against -- well, strike that. 3 Let me ask you this first: In the ranitidine litigation, do you understand that claims have been 4 5 brought against brand and generic manufacturers based on the presence of nitrosamines in 6 7 ranitidine-containing products? 8 Α Could you repeat your question? 9 0 Sure. In connection with your work in 10 the ranitidine litigation, I'm simply asking you if 11 you have an understanding that in that lawsuit there 12 have been claims brought against both brand and 13 generic drug manufacturers based on the presence of 14 nitrosamines in drugs made by both brand 15 manufacturers and generic. 16 I believe so. А 17 Do you know how many drug 0 18 manufacturers and drug suppliers have been sued by 19 plaintiffs in the ranitidine MDL stating their 20 products contain nitrosamines? 21 Α There are many, many. I can't tell 2.2 you. Is the number more than 75? 23 Q 2.4 I don't think so. Α 25 0 More than 65?

	Page 59
1	A I don't think so.
2	Q More than 50?
3	A I don't think so.
4	Q Can you give me an estimate of how
5	many drug manufacturers and drug suppliers you
6	understand to be part of that case?
7	A Probably a dozen.
8	Q Do you know how many drug
9	manufacturers and drug suppliers are part of this
10	case, the valsartan MDL?
11	A I don't, perhaps a dozen.
12	Q In addition to the ranitidine MDL and
13	this lawsuit, is it true you're also working for
14	plaintiffs' lawyers in the metformin MDL?
15	MR. NIGH: Form objection. I am going
16	to instruct him not to answer.
17	MR. TRISCHLER: What's the basis,
18	Daniel, just so I have it on the record?
19	MR. NIGH: If he is a consulting
20	witness, there is no opinion that's been disclosed
21	of metformin.
22	MR. TRISCHLER: Well, I don't know.
23	I'm asking. Are you suggesting he's not a disclosed
24	expert in that case?
25	MR. NIGH: There's been no experts

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disclosed in the metformin litigation.

Q Aside from the valsartan MDL and the ranitidine MDL, are there any nitrosamine litigation matters that you're working on where you have been retained to offer expert testimony?

MR. NIGH: And I would instruct that if you were working on any other matters where your expert opinion hasn't been disclosed, that you not answer that question, because it's privileged.

Q Can you answer that question, Doctor?

MR. NIGH: Can you ask the question,
any other litigations where his expert opinion has
been disclosed?

MR. TRISCHLER: I thought that was the question I did ask. Do you want me to ask it again?

MR. NIGH: No, you actually didn't ask that way, but if you ask that way, then we don't have to worry about the privilege objection.

Q Other than ranitidine and valsartan, have you been retained by plaintiffs in other litigation where your opinions have been disclosed to provide testimony on matters relating to nitrosamines?

A So we are a contract lab and, you know, less than 10 percent of our business comes

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Page 61 1 from litigation support but, yes, we have been retained by other firms regarding nitrosamines. And what other firms would that be? 3 0 MR. NIGH: Again, was there an opinion 4 5 disclosed in any other litigation other than 6 ranitidine and valsartan, any expert reports? 7 Otherwise, this is privileged material and I would 8 instruct you not to answer. 9 MR. TRISCHLER: I'm just trying to ask 10 a predicate question, whether there are any others. 11 MR. NIGH: He just said no. I don't 12 know if you heard him. 13 MR. TRISCHLER: I did not. 14 Α I did not disclose any expert opinion 15 on any other matters. 16 Except ranitidine and valsartan, 17 that's your testimony? Valsartan we have not disclosed any 18 19 expert opinion either. We have not finalized our 20 expert opinion as of yet. 21 Well, that's news to me, because I 2.2 thought you did file a declaration that brings us 23 here today that contains some opinions and that's what we're here to talk about. 2.4 2.5 In any event, I think what you're suggesting

		Page 62
1	to me is that	you may have valsartan at a later date
2	and you may ha	ve other reports and other opinions; is
3	that what you'	re telling me?
4	A	That's correct.
5	Q	My only question only thing I am
6	trying to get	to the bottom of is whether there is
7	any other liti	gation matters involving nitrosamines
8	that you have	been involved in where you've
9	disclosed an e	expert opinion other than ranitidine
10	and valsartan?	
11	A	No.
12	Q	The company that you own and operate,
13	as I understan	d it, is called Najafi Pharma Inc; is
14	that right?	
15	A	Najafi Pharma Inc.
16	Q	Najafi Pharma. Sorry about that.
17	А	Same as my last name.
18	Q	Yes, and Najafi Pharma does businesses
19	as Emery Pharm	na?
20	A	Yes, that's correct.
21	Q	Is Najafi Pharma Inc. a corporation?
22	A	Yes, that's correct.
23	Q	Is it publicly or privately held?
24	A	It's a privately held corporation.
25	Q	Who are the shareholders of that

		Page 63
1	corporation?	
2	А	My wife and me.
3	Q	How much of the stock do you own?
4	А	Fifty-fifty.
5	Q	I presume your wife then owns the
6	other 50 perc	ent?
7	A	That's correct.
8	Q	And what is her name?
9	A	Kelly Faranghi.
10	Q	Do you mind spelling that for my
11	benefit?	
12	A	Sure. It's F as in Frank
13	A-R-H-A-N-G-I	G-H-I, and first name K-E-L-L-Y.
14	Q	Since you and Kelly are the sole
15	shareholders	of Najafi Pharma Inc, I assume, then,
16	that all reve	nues generated after expenses go to you
17	and your wife	?
18	A	That's correct.
19	Q	In connection with your work as a
20	litigation co	nsultant in nitrosamine litigation, are
21	the fees that	you generate and the income that you
22	receive paid	to you through the company or is this
23	litigation wo	rk something that you do independent of
24	Emery Pharma?	
25	A	No, it's paid through the company.

Page 64 1 Can you tell us what total revenues 2. have been generated by Emery Pharma by your work as 3 a paid consultant for plaintiffs in nitrosamine litigation? 4 5 I don't have the exact number, but 6 it's around 200. 7 MR. NIGH: No, no, no. Sorry. Sorry. 8 I would object. You can ask what percentage of his 9 revenue over the last few years, but you can't ask 10 total revenue numbers. 11 Who would --0 12 MR. NIGH: If you want to ask for this 13 litigation, that's fair, but you can't ask for all 14 litigations. 15 Α No, no. 16 And that's not even a MR. TRISCHLER: 17 proper instruction for you to give, so just keep 18 putting on the robe as well as acting as an 19 It's improper, but it doesn't appear that advocate. 20 you're ready to stop. 21 Did you -- who would have the 2.2 information about your company about what revenues 23 Emery Pharma has generated from work in nitrosamine 24 litigation? 2.5 MR. NIGH: Again, this goes outside

	Page 65
1	the scope of what is allowable. You can ask about
2	valsartan and the revenues for valsartan, but not
3	for all nitrosamine litigations.
4	MR. TRISCHLER: Only thing I've asked
5	for the name of a person at the company who would
6	have that information.
7	A I have that information.
8	Q So you know the exact dollar amount?
9	I thought you said a few minutes ago you didn't know
10	it.
11	A No, I didn't say that.
12	Q Let me ask about some of the records
13	that I received specific to your valsartan work.
14	MR. TRISCHLER: Can you display what I
15	premarked as Exhibit No. 2, please?
16	A Yes.
17	Q Exhibit No. 2 looks to be some form of
18	a retainer agreement. Do I understand that
19	correctly?
20	A That's correct.
21	Q And is this the retainer agreement
22	that confirms your engagement
23	A That's correct.
24	Q You've got to let me finish the
25	question, sir; confirms your engagement as a

	Page 66
1	litigation consultant for the plaintiffs in the
2	valsartan litigation?
3	A That's right.
4	Q It looks like, if we go to page 4 of
5	this exhibit, it looks like it was signed in October
6	of 2019. Do I have that right?
7	A That's correct.
8	Q And somewhere in here I think you
9	requested or your company requested a retainer of
10	\$5,000; is that right?
11	A I guess so, yes.
12	Q Is that your usual retainer or would
13	that be something that was different for this case?
14	A It varies.
15	Q Was that retainer paid, if you know?
16	A Yes, it had.
17	Q And the retainer agreement says I
18	have to find the right spot, so bear with me.
19	A All right.
20	Q I'm looking at page 3, if you could
21	turn there. Thank you. There is a paragraph under
22	background and scope of work. Do you see that, sir?
23	A Yes, I do.
24	Q And it says you're being Hollis Law
25	is engaging Ron Najafi as a consultant expert

	Page 67
1	witness and Emery Pharma for laboratory activities
2	relating to valsartan NDMA, NDEA, NBMA and DMF.
3	A That's correct.
4	Q What is NBMA?
5	A That's another nitrosamine impurity.
6	Q Do you know what NBMA stands for?
7	A Not off the top of my head, but it
8	is it could be butyl nitrosol n-methyl butyl
9	nitrosamine. It could be n-methyl for amino, so I
10	have to check with my chemistry team what is part of
11	the proposal.
12	Q Is part of the proposal DMF; what is
13	DMF?
14	A DMF stands for dimethyl fumarate.
15	Q And the second part of that or second
16	paragraph under that background and scope section of
17	the retainer agreement says, "While not currently in
18	the scope of work, if any testing of valsartan pills
19	is ordered by clients in the future, such testing
20	will be performed under CGMP/GLP."
21	A Right.
22	Q Did I read that correctly?
23	A That's correct.
24	Q And the see, I'm pretty sure I know
25	what CGMP stands for. That's current good

Page 68 manufacturing practices, right? 1 2. Α Yes. 3 What does GLP stand for? 0 4 Α Good laboratory practices. 5 And CGMP and GLP quidelines that you 6 reference in this retainer guidelines specific --7 that would have been developed specific by you for 8 your lab or are you referencing or intending to 9 reference general standards for GMP and GLP? 10 Α So Emery Pharma is an FDA-registered, 11 FDA inspected GLP, GMP compliant laboratory and we 12 do perform work that is under GLP, GMP to those 13 standards. It means that you maintain good 14 laboratory notebooks. It means that your 15 equipment -- that their products is going to be 16 It's qualified. It's calibrated. So those 17 are some of the things that, you know, this sentence 18 effectively promises. 19 And I understand that. I quess my 20 question was, are the guidelines that you are 21 referring to in this retainer a guideline of general 2.2 applicability for all registered labs or are they 23 specifically developed for your lab? 24 Α No, there are a lot of general labs that contract labs could follow GLP, GMP; could be 25

Page 69 compliant with GLP, GMP and maybe not compliant with 1 2. GLP, GMP and may do things under R&D condition, so 3 it really depends on the lab. And who published the CGMP and GLP 4 0 5 guidelines that are referenced in your retainer 6 agreement? 7 Α This particular -- are you referring to this particular retainer agreement? 8 9 Q Well, yes, because that's the only 10 retainer agreement I have. 11 I put it together. Α 12 I know you put it together. Q 13 Α I have my signature on it. 14 You're not following me. Hold on. 0 15 You're not following my question, sir. My question 16 was who has published the quidelines that you make 17 reference to in this? 18 The guidelines are set by the FDA, by Α 19 European medical authorities, by ICH. 20 And you go on to, in this retainer 0 21 agreement, state that if any testing of valsartan 2.2 pills is ordered in the future, such testing is 23 going to be performed under the guidelines. Do you see what I am referring to? 24 25 Α Right.

Page 70 1 Prior to the time that you entered 2. into this retainer agreement in October of 2019, had 3 your lab ever conducted any testing of valsartan-containing medications produced by Mylan 4 5 Pharmaceuticals? The answer is we have conducted 6 А 7 valsartan testing prior to this retainer agreement. 8 0 And was the valsartan testing that you 9 conducted, was it using valsartan tablets produced 10 by Mylan? 11 I don't recall. А 12 Was the valsartan -- and right now I 13 am only asking you about testing you did prior to 14 entering this agreement. Was the valsartan lab 15 testing that was done at Emery prior to the entry of 16 this agreement, did it involve any valsartan 17 containing medications produced by ZHP? 18 Α I do not recall. 19 Did it involve what I'll call the 0 20 pre-retainer testing, okay? 21 Α Right. 2.2 Did any valsartan testing that you made reference to that was conducted at the Emery 2.3 24 lab involve any other valsartan-containing 25 medications produced by Hetero?

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Page 71 I do not recall and if I did, it would 1 Α 2. be privileged. It would be under a different, you 3 know, agreement with another law firm. Did any of the testing that you did 4 0 5 prior to this retainer agreement involve Aurobindo-manufactured products? 6 7 I do not recall. I don't know. Do you recall if any of the 8 0 9 pre-retainer valsartan testing done at your 10 laboratory involved any valsartan-containing 11 medications produced by any of the defendants to 12 this litigation? 13 Α I do not recall the manufacturer's 14 name that we tested prior to this agreement. 15 could have been any one of those companies. 16 Since you entered into this retainer 17 agreement and became a consultant in this valsartan 18 litigation in October of 2019, have you ever 19 conducted any lab testing on any valsartan 20 medications produced by Mylan? 21 I do not recall. We test valsartan. 2.2 We assign numbers to pills. We have very good chain 23 of custody. We typically -- the operators who do 24 the testing, they have no idea who is manufacturing

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the pills. There simply there is an ID to it and

Page 72 1 chain of custody and they get it tested, and I honestly don't know. I don't pay attention to who 3 the manufacturers are. So your lab has done valsartan testing 4 0 of valsartan medications since entering into this 5 6 retainer agreement, correct? 7 We have done lots of valsartan testing prior to this agreement and we've done more 8 9 valsartan testing post this agreement. 10 And if I understand your testimony --0 11 I am going to get into the details of it more, but 12 if I understand your testimony so far, what you're 13 suggesting is that as you sit here today providing 14 testimony under oath, you're not able to tell us 15 whose valsartan product you tested in terms of who 16 the manufacturer was? 17 No, I don't have that information. Α 18 Would there be records available in 0 19 your lab records that would tell you that? 20 Yes, there would be records available Α 21 at our lab that would tell me exactly what the 2.2 manufacturers are. 23 When did your lab first start doing 0 valsartan testing? 24 25 Α I think around maybe May of -- April,

Page 73 1 May of 2019. 2. What was the reason that your lab 3 started to do valsartan testing in April or May of 2019? 4 5 Α I think it was initiated primarily by 6 the recall of valsartan products. 7 And is it something that your lab did on its own initially or were you retained by 8 9 somebody to do that testing in April and May of 10 2019? 11 We were retained. Δ 12 And who retained you in April or May 13 of 2019 to do that testing? 14 Again, if this is MR. NIGH: 15 privileged information and has nothing to do with 16 this case, then I would instruct you not to answer 17 and waive whoever else's privilege you have. 18 Α It is confidential and privileged. 19 Well, I think -- you MR. TRISCHLER: 20 know, in fairness, I think I am entitled to know who 21 it was in order to determine whether there is any 2.2 claim of privilege. It was a law firm. 23 А 24 0 Was it a law firm representing a 2.5 plaintiff, representing a manufacturer, a drug

Page 74 1 supplier; do you know? 2. Α It was a law firm representing 3 plaintiffs. Is that firm that retained you in 4 0 5 April or May of 2191 of the law firms that are involved in the valsartan MDL? 6 7 I don't know. Do you know if the lawyer for the firm 8 0 that retained you is involved in the valsartan MDL? 9 10 We do the testing. We know the А 11 nitrosamine. We know the chemistry. We don't 12 really get involved with, you know, sort of the 13 legal aspects of what's going on. 14 I understand. My question was 0 15 simply -- and if you don't know you can tell me you 16 don't know, but my question --17 Α I don't know. I don't know, honestly. 18 They may be involved with MDL. They may not. 19 And so are you able to describe for me 20 what type of testing you were retained to do in 21 April or May of 2019? 2.2 MR. NIGH: Let me in for a second 23 I am going to object. I think all this 24 information is privileged. I appreciate, Clem, Mr. Trischler, trying to understand who the parties 25

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Page 75 are and I think Dr. Najafi just doesn't know whether 1 2. or not they are related to MDL. I think we do know. 3 It has no bearing on any of plaintiff's counsel and no relation to this MDL, but I don't think that he 4 5 Why you ask him sitting here today. knows that. 6 MR. TRISCHLER: I understand and I am 7 not trying to be unfair, Daniel. I'm just trying to -- if we need to raise the issue, I'm trying to 8 9 understand some of the basic facts of what was done 10 and when so that -- and sort of making a record. 11 assume if we get into it later, I don't think 12 there's any dispute that we ought to be entitled to 13 know the basic facts of what he did so we can arque 14 relevance and privilege to the Court, and that's all 15 I am really trying to do here. 16 I think the only question pending at 17 this point is are you able to describe the type of 18 testing that was done in April or May of 2019. 19 MR. NIGH: No, I think that that's 20 privileged. 21 BY MR. TRISCHLER: 2.2 Were reports of -- whatever testing 0 23 was done, were reports generated? 24 MR. NIGH: Again, privileged.

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MR. TRISCHLER:

Well, I didn't ask

Page 76 what the reports disclosed, just whether reports 1 2. were generated. 3 MR. NIGH: Again, privileged. 4 MR. TRISCHLER: So you're instructing 5 him not to answer that question? 6 MR. NIGH: Yes. 7 BY MR. TRISCHLER: Were there established lab protocols 8 0 9 that Emery had created pursuant to which the April, 10 May 2019 testing was conducted? 11 Again, privileged. MR. NIGH: 12 MR. TRISCHLER: See, Dan, I disagree 13 with you there. If there is an established protocol 14 that they have that's part of their everyday, work I 15 think I'm clearly entitled to that. I'm not asking 16 him the results of the testing, but just the 17 protocols that were followed. Those are lab 18 procedures. I don't think -- that's not privileged. 19 MR. NIGH: You know, for the 20 certification he doesn't rely on testing of the 21 valsartan pills at all whatsoever in any of his 2.2 testing that he has done, so it's outside the scope 23 and privileged. 24 MR. TRISCHLER: And I don't want to 2.5 argue relevancy or privilege with you right now.

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am just trying to understand the facts so that we can seek the information later, but the fact that he's not relying on it for whatever opinions he intends to offer at this stage of the proceedings is not determinative. For all we know there may be information that undermines his opinions, but we don't know until we have an opportunity to discover it.

Again, the only question pending at this point -- you've made your objections where you think they are appropriate and I am not arguing any of them, Dan. I am just asking you to reconsider the objection to the question I just asked about whether there are existing lab protocols pursuant to which this work in 2019 was done. I don't think that's privileged at all.

MR. NIGH: I think you asked that question a little bit differently and I think he can answer that question.

MR. TRISCHLER: Tell me how you think it should be asked differently and I will accept that.

MR. NIGH: No, no. I think you asked it differently. My understanding is you're asking do they have guidelines as to how this testing would

Page 78 be conducted. That's different. 1 MR. TRISCHLER: Well, that was --3 MS. HILTON: Not developed for the testing, but do they have guidelines that were in 4 5 place or existing at the time of the testing. 6 MR. TRISCHLER: Yes. That's what I'm 7 looking for. So what's the question? 8 А 9 0 The question was at the time this 10 testing was done in April or May of 2019, did your 11 lab have existing protocols and quidelines in place 12 that would have governed that testing. 13 Α We follow several quidelines, several 14 procedures from FDA on testing of, basically, 15 nitrosamines, and that's what we use. So it's 16 established testing guideline, you know, with the 17 full following the same guideline procedure 18 controls. 19 Do you have any information --20 whatever the valsartan that was tested in April or 21 may of 2019, do you have any idea where it came 2.2 from? 23 I am going to object to MR. NIGH: 24 privilege and instruct him not to answer. Actually, 2.5 I think we have gone far beyond. I think we are

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going to have to brief this at this point,
Mr. Trischler, because even his last answer
contained, you know, essentially privileged
information. Anything that has to do with testing
that has no nexus to this litigation is privileged.

MR. TRISCHLER: Okay. I disagree.

You've disclosed this witness as a testifying expert. He's now indicated that he conducted valsartan testing to ascertain nitrosamine levels. He did it in 2019. He's been doing it on an ongoing basis and the suggestion has nothing to do with this litigation. I think it has no factual merit whatsoever, no disrespect intended. So we obviously have a disagreement, but if --

MR. NIGH: We do, and I am going to instruct him not to answer any further. I would just redirect to his opinion. It's simply not how NDMA, how much products have NDMA. His opinion boils down to valsartan-containing products that contain NDMA OR NDEA but the generic equivalent of Diovan or Exforge because they contained NDMA, NDEA. It's as limited as to that. So whatever tests that he's done in other litigations, there is no relevancy stacked on top of the fact that it's privileged. So I am going to instruct him not to

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answer about any testing that he has done outside of this litigation.

Also your instruction MR. TRISCHLER: applies to what he described and what we have been calling as the April/May 2019 testing. I think he's also indicated they have been testing valsartan on an ongoing basis.

MR. NIGH: That's correct, and my instruction would apply equally to that testing that has no basis in this MDL.

MR. TRISCHLER: So your position, just so I'm clear and I don't have to belabor the record, is that we can agree that the witness operates a research lab that's done testing on valsartan-containing medication for nitrosamine content on a fairly consistent basis since April and May of 2019, some of which may include valsartan-containing medications produced by the defendant in this litigation, some of which may include valsartan containing medications produced by manufacturers and suppliers that are not parties to this litigation, but your instruction is a global one that all of that testing is off limits, according to the plaintiff and that the witness will be instructed not to answer any questions at all

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Is that your position? about it.

MR. NIGH: I think he's answered he doesn't know which manufacturer, so that's been established already right. Other than that, my instruction would be no further testimony, and I would instruct him not to answer about any further testimony about testing that he has done, since none of that testing was done for the MDL on behalf of the MDL and has no nexus to the MDL. Actually, if we need to brief it, we can.

Right. I will just MR. TRISCHLER: say we disagree. I think it's clearly relevant and probative, but we can save it for a future date. don't want to belabor the record on it, so let me move on.

MR. NIGH: I understand.

## BY MR. TRISCHLER:

You talked about or I was asking you 0 about your work in the valsartan MDL. In addition to that retainer, I wanted to ask you about some documents that I received. I received a few invoices from your firm, Doctor, and I've had those invoices marked Exhibits 3, 4, 5 and 6, okay.

MR. TRISCHLER: Can you put up -- I quess we'll start with Exhibit 3.

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		Page 82
		rage 62
1	A Ok	ay.
2	Q It	looks like Exhibit 3 is an invoice
3	that's dated Aug	ust 2, 2001, correct?
4	A Th	at's correct.
5	Q Th	is that August invoice you've
6	submitted a bill	for six hours of time for document
7	reviews that wer	e apparently done in July of last
8	year; is that ri	ght?
9	A Ri	ght.
10	Q An	d then Exhibit 4 is dated
11	January 28, 2022	; just last week, right?
12	A Ri	ght.
13	Q An	d there you billed, submitted an
14	invoice for two	hours worth of time that you spent
15	back in October	of last year, right?
16	A No	t October, November.
17	Q We	ll, it says class certification
18	review October 2	5, 2021?
19	A Ri	ght. Right. Exactly.
20	Q So	what does that mean, class
21	certification re	view October 25, 2021?
22	A So	this is the pertains to my
23	expert report on	the class certification primarily.
24	Q I	wasn't sure. Is there some I
25	don't know what	"class certification review" means.

Page 83 1 What did you do over those hours? 2. The expert report that you were 3 looking at earlier, essentially, review of documents, review -- you know, putting that 4 5 together, putting the expert report together and putting the package of citations and everything that 6 7 needs to be that you all have in your hands 8 together. Okay. And then the other invoice that 9 0 I have is Exhibit 5. It's dated January 31, 2022, 10 11 which is just a few days ago, right? 12 Α Right. 13 And you've got two more hours that you billed for review of class certification final 14 15 declaration review in November -- on November 4, 16 2021, right? 17 Α Right. 18 I guess you spent two hours reviewing 0 that declaration on that date? 19 20 Right, but this is reviewing a lot of Α 21 the citations, reviewing the -- you know, just 2.2 preparing. This is just preparation for today's 23 call. 24 Okay. And then the final invoice that 0 I received is Exhibit 6. We marked that. 2.5

Page 84 dated February 1, 2022, and you've got a bill for 1 about 15 hours of time? 2. It's, again, reviewing for today's 3 Α call and refreshing my memory on the various 4 5 citations that I'm quoting and all of that. So it looks like you spent 6 Right. 7 about 15 hours --8 Α Right. 9 -- preparing for this deposition? Q 10 Α Exactly. 11 And when you were preparing for this 0 12 deposition, who were you preparing with? 13 Α Myself --14 And --0 15 Α -- and I also spent some time with the 16 plaintiff's lawyer discussing the deposition. 17 And which lawyer would that be on the Q 18 plaintiff's side? 19 Rosemarie, Daniel, Brad and Layne. Α 20 So I assume these invoices, then, that 0 21 we have that we marked as exhibits 3 through 6 would accurately reflect the time that you spent and that 2.2 23 you devoted to this valsartan project since you were retained in October of 2019, right? 24 2.5 This is not all of them. А This is

Page 85 1 primarily just specific to this expert report that we did. 3 Well, I am interested in all the time and work and billing that you have submitted in 4 5 connection with your working in valsartan MDL. 6 this is just a drop-in the bucket? 7 This is a portion of the bills that we Α have given. We haven't shared all the bills. 8 9 Q Why not? 10 MR. NIGH: That's a legal question. 11 We objected and provided the reasons for that 12 objection. His opinion here today is limited on his 13 class certification and not his liability on things. 14 So let me ask you about the 0 declaration itself. You have -- I marked the 15 16 declaration as Exhibit No. 1. Do you have a copy of 17 it there or do you need to have the --18 Α I have it. 19 You have it? 0 20 Yes, I do. Α 21 All right. And so this is a 2.2 declaration that has your name and your signature 23 attached to it, correct? 2.4 Α Correct. And it's not on the letterhead of 2.5 0

		5
		Page 86
1	Emery Pharma,	is it?
2	A	No, it's not.
3	Q	It's not on your personal letterhead,
4	is it?	
5	A	No, it's not.
6	Q	Was this something that you personally
7	prepared or wa	s this prepared by the lawyers?
8	A	No, I personally prepared the
9	document.	
10	Q	Every word of this is your words?
11	A	Yes, it is.
12	Q	No help from the lawyers?
13	A	No help.
14	Q	And as I read the declaration, it
15	appeared to me	that there were two opinions
16	contained in t	his declaration. The first one was
17	that you sugge	est that NDMA and NDEA should not be
18	present in any	drug, am I correct that in stating
19	that sort of c	pinion that you hold and you expressed
20	in this declar	ration?
21	A	Please repeat your question. I lost
22	track.	
23	Q	Yeah. I was just trying to summarize
24	what I think y	our opinions are that are contained in
25	this declarati	on and I want to make sure I got it

	Page 87
1	correct. So what I was saying was
2	A Yeah.
3	Q in this declaration
4	A Yeah.
5	Q you state that NDMA and NDEA should
6	not be present in any drug. Is that an opinion that
7	you hold?
8	A NDMA and NDEA are carcinogenic
9	mutagenic compound that should not be present in any
10	drug period.
11	Q And then the second opinion that I saw
12	in this declaration was that you suggest that the
13	presence of a nitrosamine impurity in a generic drug
14	product renders that
15	A Could you point to that? Your screen
16	is frozen.
17	Q Point to what, sir?
18	A Point to you're showing me a
19	document on this screen.
20	Q No, I wasn't. We can take the
21	document down.
22	A Okay.
23	Q You have the report in front of you.
24	A I thought you were quoting from my
25	declaration, but go ahead.

		Page 88
1	1 Q No.	
2	2 A What's your question?	
3	Q I am trying to ask you a	question. In
4	4 your declaration do you offer the opin	ion that the
5	5 presence of any nitrosamine impurity i	n a generic
6	6 drug product renders that product not	equivalent to
7	7 the reference listed drug?	
8	A Absolutely.	
9	9 Q And do you agree that th	ose are the
10	opinions that you set forth in your de	claration and
11	that you intend to offer in this matte	r?
12	A Absolutely.	
13	Q Are there any others?	
14	A No generic drug should c	ontain any
15	mutagenic compound, particularly NDMA	and NDEA and,
16	essentially, any nitroso compound. Th	ey are cohorts
17	of concerns and their limits should be	zero.
18	Q And that was the first o	pinion that we
19	went over. Other than those two opini	ons, are there
20	any others that you intend to offer?	
21	A I might have opinions to	offer in my
22	full expert report which will be comin	g shortly, but
23	what you see for now is what I think I	have, but I
24	will have other opinions as well.	
25	Q I'm sure we will all wai	t with bated

```
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       breath for the next report, but at this time at this
 1
 2.
       state of litigation, those two opinions are the
 3
       stated opinions that you intend to offer; is that
       right?
 4
 5
              Α
                      Yes.
 6
                      MR. TRISCHLER: Dan, can we take a
 7
       five minute comfort break?
                      MR. NIGH: Yes. Let's take ten
 8
 9
       minutes.
10
                      THE VIDEOGRAPHER: The time is 11:41.
       This concludes Media No. 2.
11
12
                      (A recess was taken.)
13
                      (After the recess the following
14
            occurred:)
15
                      THE VIDEOGRAPHER: The time is now
16
       12:03. This begins Media No. 3. You may proceed.
17
       BY MR. TRISCHLER:
18
                      Doctor, allow me to cover a few
              0
19
       additional background issues with you, if I can.
20
       I understand it, your background and education is in
21
       the field of chemistry, correct?
2.2
              Α
                      That's correct.
23
                      I was provided with a copy of a CV.
       I've marked it as Exhibit 7.
24
2.5
              Α
                      Okay.
```

	Page 90
1	MR. TRISCHLER: Can someone put it up
2	for me, please. Can you go to the next page.
3	Q If you need more time, tell me and
4	continue, please.
5	A I am familiar with my CV.
6	Q All right. And is this a what we
7	marked as Exhibit 7 a true, correct and accurate
8	summary of your qualifications and credentials?
9	A That's correct.
10	Q In the copy of the CV that I received,
11	I did not see any list of publications. Do you
12	maintain a list of publications?
13	A It should be. It should be there.
14	Q Can you flip through? Maybe this is a
15	different one than what I had with the report.
16	A Maybe this is a different one.
17	Q Is that the end of the document there?
18	THE VIDEOGRAPHER: There are 13 pages.
19	Do you want me to keep flipping through or do you
20	want me to when you're ready for the next one?
21	MR. TRISCHLER: Yes. Keep flipping
22	through, because if it's more than five pages, then
23	it's different than one I have.
24	A Now you see the publication.
25	Q Yes. Okay. The copy that I was

	Page 91
1	looking at did not have that. All right. Thank
2	you.
3	A What is your question?
4	Q As far as you know, this version of
5	the CV we marked as Exhibit 7 is current, up to date
6	and accurate, right?
7	A Right, as long as you can show me
8	everything else, because it sounded like you were
9	missing some parts of it. I only see two
10	publications on your exhibit.
11	Q Well, we said we can flip through the
12	rest if you like. That's why I asked if you wanted
13	to.
14	A Yes, flip through it.
15	THE VIDEOGRAPHER: This is page 6,
16	Doctor. Just let me know when you're ready for the
17	next page.
18	THE WITNESS: Yes. Go ahead. Go
19	ahead. Yes. Uh-huh. Okay. Yes.
20	THE VIDEOGRAPHER: There's two more
21	pages.
22	A Okay. I think you have everything.
23	Q So we're good? In terms of what we
24	marked as Exhibit 7 is the up to date, current and
25	accurate summary of your qualifications, right?

	Page 92
1	A Correct.
2	Q Good. And what I remember reading is
3	that you obtained a bachelor's and master's in
4	organic chemistry from the University of San
5	Francisco, right?
6	A Correct.
7	Q And I think it was in 1998 you got
8	your PhD in organic chemistry from U.C. Davis?
9	A That's correct.
10	Q And after completing your PhD you went
11	to work as a research scientist for a few chemical
12	and pharmaceutical companies before starting your
13	own business around 1996?
14	A That's correct.
15	Q And the company that you started in
16	1996 was a company called CP Lab Safety; do I have
17	that right?
18	A That's correct.
19	MR. TRISCHLER: You could take the CV
20	down, sir.
21	Q How long did you run CP Lab Safety?
22	A Probably around two years, two or
23	three years.
24	Q Did CP Lab Safety develop or
25	manufacture drug products?

		Page 93
1	A	No.
2	Q	Did CP Labs hold any new drug
3	applications?	
4	A	No.
5	Q	Did CP Labs hold any abbreviated drug
6	applications.	
7	A	No.
8	Q	Did CP Labs hold any or were they
9	responsible fo	or any drug master files?
10	A	No.
11	Q	While at CP Labs, were you or was your
12	company at ali	l involved in the synthesis,
13	manufacture of	r testing of API for drug products?
14	A	No.
15	Q	At CP Labs did your company have any
16	role in the fo	ormulation, synthesis, manufacture,
17	production or	testing of angio tensin receptor
18	blocker medica	ations like valsartan?
19	A	So at CP lab I started another
20	pharmaceutica	l company called NovaBay
21	Pharmaceutica	ls and that is immediately following CP
22	Lab and that	company effectively was incubated
23	within CP Lab	and within NovaBay I had multiple
24	interactions v	with the FDA. We manufactured product
25	according to (	CGMP and we put products on the market.

2.

2.2

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And prior to CP Lab, I worked at a pharmaceutical company that was heavily involved in GMP manufacturing and drug product, drug substance and that one of the companies I worked for, Applied Biosystems, in fact, you know, we had a challenging impurity that was causing a lot of problem and I was responsible for finding that impurity and solving a major problem that led to an award, you know, amongst 1,300 PhDs. This is back in 1994.

So -- but, you know, I don't have to have experience in, you know, ARBs to know the molecule. I can synthesize ARB personally.

- Q Are you finished?
- A Yes, I am.
- Q All right. Then let me see if I can get you to answer my question. At CP Labs did your company have any role in the formulation, synthesis, manufacture, production or testing of ARBs like valsartan?

A No. At CP lab we did not have any ARB manufacture.

Q You said that -- if I can unfold some of that commentary that you gave me, was that CP Labs was eventually folded into NovaBay Pharmaceuticals, another company that you started?

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Page 95 CP Lab is, you know, existing 1 Α 2. company right now and it's a standalone company. 3 NovaBay was incubated within CP Lab and NovaBay got its start from CP Lab. 4 5 So CP Lab still exists today? 0 6 Α Yes it does. 7 Do you have any affiliation with CP 0 Lab? 8 9 Α I own 50 percent of CP Lab. 10 Who owns the other half? 0 11 My wife. Α 12 What's the business of CP Labs today, 0 13 do you know? 14 CP Lab manufactures patented product Α 15 called ecological funnel, which is product that I 16 invented while I was at Applied Biosystem and that 17 patented product is the major product of CP Lab and 18 they manufacture it in the United States and they 19 export it around the world including China, Korea, 20 Japan and elsewhere. 21 They also distribute chemicals, distribute 2.2 safety product. So you can visit CPlab.com and take 23 a look at it. 2.4 0 What is an ecological funnel? 2.5 Α It's a tunnel that prevents

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evaporation of solvents from the fume. It's an environmental product that prevents pollution outside of laboratory. It prevents evaporation of toxic substances, including mutagenic -- potentially mutagenic compounds going into the atmosphere and into the neighboring localities. And ecological funnel is in use right now in, I would say, 90 percent of pharmaceutical companies worldwide.

> Q When did you start NovaBay?

Α NovaBay was incubated within CP Lab around probably 1998; '97, '98 and officially it became a company in the year 2000, and I took the company public in 2007 and I left. I sold my shares and left NovaBay in 2015 and started Emery Pharma. And Emery Pharma, actually, again was incubated within NovaBay starting at 2011.

Am I correct that NovaBay produces 0 antibacterial products for the eye care and skincare markets?

That's correct. That's some of their Α products.

While you were at NovaBay, did the 0 company do any work on the formulation synthesis, manufacture, production or testing of ARBs?

> We did not manufacture, synthesize, Α

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	Page 97
1	formulate any ARBs at NovaBay.
2	Q Did while at NovaBay, did that
3	company ever prepare or submit an abbreviated new
4	drug application for any drug product?
5	A We did not prepare or submit any
6	abbreviated new drug application. However, we
7	submitted many INDs, investigation of new drug, and
8	we also submitted many 510-Ks from the drug or
9	device division of the FDA.
10	Q I guess was that because the focus at
11	NovaBay was to try to develop its own line of
12	A Product.
13	Q probial products?
14	A Right. We were not a generic
15	manufacturing we were not a generic
16	pharmaceutical company.
17	Q So at no time at NovaBay were you
18	involved in synthesizing API for a generic
19	formulation, correct?
20	A We could have, but that was not the
21	mission of the company.
22	Q So it was never done?
23	A Never done.
24	Q And then at some point did you say
25	Emery Pharma was intubated?

	Page 98
1	A Incubated.
2	Q I'm sorry?
3	A Incubated.
4	Q Incubated. I said intubate. That
5	would not be correct.
6	A I heard "intubated."
7	Q Right. That's what I said. I did say
8	that. That was not correct, so I apologize.
9	And then eventually Emery Pharma became a
10	standalone company that you operate to this day,
11	correct?
12	A Correct.
13	Q And I think that if I understand what
14	you've previously described for us, the mission
15	statement and the function of Emery Pharma is to
16	provide research laboratory services that meet the
17	CGMP and GLP standards for quality?
18	A Emery Pharma is a FDA registered, FDA
19	inspected DMB, GLP compliant contract research
20	organization and our mission is to help save lives
21	and save the environment.
22	Q Does Emery Pharma develop or
23	manufacture drug products?
24	A Emery Pharma? That's not within the
25	mission of the Emery Pharma, no. We can, but we do

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	Page 99
1	not.
2	Q Does Emery Pharma hold any new drug
3	applications?
4	A No, we do not. Our clients do.
5	Q Does Emery Pharma hold any abbreviated
6	new drug applications?
7	A We do not, but our clients do.
8	Q Has Emery Pharma ever prepared a DMF,
9	submitted a DMF?
10	A We do not, but we help our clients
11	essentially submit DMF and NDA and IMD and we
12	participate in their FDA meetings when necessary.
13	Q And I'm sorry. I think it was
14	probably due to sometimes there's sound that goes in
15	and out in the computer. You said you help clients
16	with submissions of what was that again?
17	A New drug application, abbreviated new
18	drug application; DMF filings; you know, support.
19	Just about anything that the client needs, we help.
20	We support them.
21	Q And how long has Emery Pharma been in
22	business?
23	A Since 2011, ten years.
24	Q Who are the clients for whom you've
25	help submit new drug applications or abbreviated new

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Page 100 1 drug applications? That's confidential information. 2. Α 3 wouldn't be able to share with you. So you'll say that you have experience 4 0 5 helping to prepare ANDAs and NDAs, but you won't tell us who you did it for? 6 7 Α Yes. Have you ever assisted a client in 8 0 9 preparing a DMF? 10 Personally, no, but some of my Α employees might have. 11 12 In your career, sir, have you ever 0 13 published any peer-reviewed literature related to 14 nitrosamine impurities in pharmaceuticals? 15 Α Yes, we have. We filed a citizen 16 petition which was previewed by FDA and the response 17 we got from the FDA was they had agreed with our 18 findings, so I just would consider that very 19 peer-reviewed. 20 My question wasn't have you ever 0 21 submitted a citizens petition. My question was have 2.2 you submitted literature for publication in a 23 scientific journal that's been peer reviewed and 24 accepted that related to nitrosamine impurities in 2.5 pharmaceuticals?

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1	MR. NIGH: Objection. You can answer.
2	A We have not filed any
3	nitrosamine-related publications in a peer reviewed
4	journals of our FDF filing.
5	Q The list of publications that were
6	attached to your CV that we marked as Exhibit 7, do
7	any of them feel with nitrosamine impurities in
8	pharmaceuticals in any manner or form?
9	A I do not believe they do.
10	Q Have you ever drafted a manuscript
11	related to nitrosamine impurities in valsartan for
12	publication in a peer review journal?
13	A We have drafted publication regarding
14	NDMA and nitrosamines, but not published.
15	Q Have you submitted a manuscript for
16	publication?
17	A No.
18	Q Why not?
19	A It's confidential. It's related to
20	another matter that we are working on related to
21	ranitidine.
22	Q Will you provide it to me?
23	A Daniel? I suppose I can.
24	MR. NIGH: We would have to see what
25	the document is. I think he just amended his answer

Page 102 1 at the end to say it's for ranitidine and your 2. question is for valsartan. 3 MR. TRISCHLER: I think the question 4 was --5 Α It's under --MR. TRISCHLER: Hold on. Hold on. 6 Ι 7 think my memory is not infallible, Daniel, but what 8 I was basically asking is whether he's ever drafted 9 a manuscript that relates to nitrosamine impurities 10 in pharmaceuticals. I may have said valsartan, but 11 my intent was broader, and so it sounds like 12 something. The question is can I see it. It's not 13 been produced thus far. 14 MR. NIGH: We would examine the 15 document before we respond and answer to that. 16 MR. TRISCHLER: Well, it was subject 17 to the notice of deposition in this case. In the 18 deposition notice served in connection with this 19 deposition, I asked that the witness come here with 20 all publications relating to nitrosamines. 21 would clearly -- this manuscript that he's described 2.2 would clearly be responsive. 23 MR. NIGH: I think you had our 24 response an hour ago. 2.5 MR. TRISCHLER: I'm sorry. Unless you

Page 103 want to continue the deposition, I mean, this is my 1 2. chance to depose him on it. 3 MR. NIGH: I believe that 48 hours ago we served our objections as clearly outside of the 4 5 scope of anything that is he's proffered in terms of 6 testimony in his expert here today. 7 Well, as far as MR. TRISCHLER: outside the scope of his declaration, I disagree, 8 9 but I guess we will be taking it up again. 10 So you do have a manuscript --0 11 MR. NIGH: And just to be clear --12 Since you're saying something about taking sorry. 13 it up again, just so you understood too, I haven't 14 even looked at this document. So to the degree 15 you're asking about draft documents and 16 publications, obviously it would have potential 17 privilege as well. 18 It's ranitidine related, but it's Α 19 nitrosamine. 20 Well, you've publicly disclosed the 0 21 existence of this manuscript, have you not? 2.2 Α No. 23 Well, can you put up Exhibit 8 for us, 0 24 please. Do you recognize Exhibit 8? 2.5 Α Yes, I do.

Page 104 1 What is it? 0 2. Α It's sort of a summary that one of my 3 team members wrote regarding our filing of our citizen petition regarding ranitidine and how we 4 5 came about it, how we found the problem and how we 6 reported it to the FDA and how FDA actually agreed 7 with us and responded to our petition in a positive manner. So that's really just the story of that. 8 9 There's nothing about this that contains anything 10 about that draft publication. 11 So this is what we have marked as 12 Exhibit 8, is basically a press release that was 13 issued by Emery Pharma, correct? 14 Α Correct. 15 And I think this press release is 0 16 available on your website? 17 Α Website. It's not a press release. 18 It's a blog. 19 All right, but this document and this 0 20 disclosure is on your website --21 Α That's correct. 2.2 -- for the public at large to view? Q 23 Α Yes. 24 And in this document don't you state 0 2.5 or indicate that you're preparing a manuscript for

Page 105 publication on the issue of nitrosamines in 1 2. pharmaceuticals? 3 Α Right. 4 0 And if you could go to page 2 of this 5 document. 6 Α Okay. 7 Can you highlight the second full 0 paragraph for me, please. Thank you. Are you able 8 9 to read that, sir? 10 I'm reading it. Yes, I'm reading it. Α 11 Emery Pharma has publicly 0 12 disclosed that it's been testing valsartan, losartan 13 and other ARBs for nitrosamines since the early 2018 14 time period, correct? 15 Α That's correct. 16 And there's nothing in these public 17 comments that you've made at the testing that we've 18 not been provided with it's something that's done for litigation or confidential. You've told the 19 20 free world about it, right? 21 We mentioned that we have been doing 2.2 that, but we haven't disclosed the results. The results are confidential. 23 2.4 0 You are not a pathologist, true? 2.5 Α Say that again, please?

		Page 106
1	Q	You are not a pathologist?
2	A	Pathologist?
3	Q	That was my question.
4	A	No, I'm not a pathologist.
5	Q	Are you a medical doctor?
6	А	I'm not a medical doctor.
7	Q	Are you a toxicologist?
8	А	I'm not a toxicologist.
9	Q	Is it fair to say you're not a
10	epidemiologist and you do not have any specialized	
11	training or expertise in the field of pharma	
12	epidemiology?	
13	A	I am not a epidemiologist or any of
14	that.	
15	Q	Have you ever conducted and published
16	any peer-revi	ewed research on the carcinogenicity of
17	NDMA?	
18	A	No, I have not.
19	Q	Have you ever conducted and published
20	any peer-reviewed research on the carcinogenicity of	
21	NDEA?	
22	A	No, I have not.
23	Q	Since you have no medical training, I
24	assume you do	not diagnose cancer in patients; fair
25	to say?	

Page 107 I am not a doctor. 1 Α 2. 0 And in this litigation I understand 3 you have not been designated as a witness on the issue of causation, true? 4 5 I am not a medical doctor. 6 0 Right. And you're not going to 7 testify -- well, we can agree you're going to be offering causation opinions in this matter, correct? 8 9 Α Explain to me what causation, what 10 your definition of causation here. 11 You're not going to be offering any 12 opinions that exposure to NDEA or NDMA did or can 13 cause cancer in humans? 14 No, I am not offering any opinion on Α 15 the toxicology opinion on the NDEA or NDMA. 16 Have you ever published anything on 17 the requirements for a proper drug master file? 18 Α No, I have not published any 19 requirement on anything on the requirements for drug 20 master file. 21 Have you ever published anything on 2.2 outlining the regulatory duties and responsibilities 2.3 of a generic drug manufacturer? 2.4 Α We're not in the publication business. We have not published anything. We are a contract 2.5

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1	research laboratory testing facility with a lot of
2	experience in drug testing and impurity testing and
3	genotoxic testing.
4	Q Have you ever published anything or
5	given any lectures or speeches on the critical
6	review of the CMC sections and requirements for a
7	abbreviated new drug application?
8	A I have. I was invited to give a
9	presentation at a drug impurity symposium for
10	generic manufacturers and that presentation is
11	actually available. It's on the it should be
12	online YouTube or various other places.
13	Q Is it referenced on your CV?
14	A No.
15	Q When did you speak at this symposium?
16	A Probably early 2020, maybe mid 2020.
17	I can't recall.
18	Q We talked a little bit about Emery
19	Pharma's status as an FDA registered research lab.
20	What did you have to do in order to obtain that
21	registration, if anything?
22	A You basically submit an application to
23	the FDA and you register yourself with the FDA, and
24	as a result you become subject to FDA inspection.
25	Q When did you when did your lab

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		Page 109
1	complete that	application?
2	А	I think maybe 2016, 2015, some time
3	frame.	
4	Q	When did you obtain the registration;
5	do you know?	
6	A	No, I don't, probably within a few
7	months.	
8	Q	How many FDA inspections have taken
9	place at your	facility since?
10	A	We've had two inspections from the
11	FDA.	
12	Q	When were those inspections?
13	A	I can't recall; 2018 maybe one, 2021.
14	Q	Were there any Form 483 issues
15	following thos	se inspections?
16	A	In our second inspection we had a Form
17	483 filled, ye	es.
18	Q	That was the most recent one in 2021?
19	A	That's right.
20	Q	What was that for?
21	A	It was primarily for, you know, making
22	sure our data	gets backed up and we have we do
23	sufficient due	e diligence to make sure the data that
24	we generate ge	ets backed up into a secondary backup
25	drive. So we	have remedied that, and also to make

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2.

2.2

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sure that our bend were open when we go to various instruments, every user will have its own individual log in, but we had no issues whatsoever on any of our testing, any of our releases, any of our products that are on the market.

There were just no issues on testing, but just procedurally just data management, primarily backup, and also specific user log-in, and both of those have been remedied.

Q You said something that piqued my curiosity, because I did not understand this to be within the scope of anything you did. You said something about our products. It was my understanding that Emery Pharma does not manufacture or sell any drug products. Am I wrong?

A No, you're not. We do not sell or manufacture any drug product. However, we do release them. So, another contract manufacturer comes to us for a manufacture or a manufacturer comes to us and says, please test my compound and release them according to the guidance, ASP guidance or GMP/GLP guidance.

So we officially release them and we identify the drug, we identify their impurities and we release them. So releasing is a terminology that's known to

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It means it is ready to be sold into the market.

Okay. And what you've suggested to me is that in connection with the 2021 inspection, FDA issued a 483 to Emery Pharma finding that certain aspects of it or recordkeeping did not comply with good laboratory practices, correct?

What I said was that certain parts of Α our data backup, data storage and backup did not comply with the regs, and really it was a risk management issue and their question was what happens if there is an earthquake and then we lose all the data.

So it needs to be backed up into the cloud so in case of an earthquake, in case of fire we have data that we can go back to.

Right. A form 483 is issued by an FDA 0 inspector after an inspection when that investigator observes any condition that in his or her judgment might constitute a violation of the Food, Drug, and Cosmetic Act or its related regulations, right?

> Α That's correct.

And so what you're telling me is that 0 in 2021, your FDA-registered lab was found to have conditions that in the opinion of the investigator,

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constituted violations of the Food, Drug and Cosmetic Act and its regulations as it related to data management and data maintenance.

A What I said was the 483 -- first of all, in our first inspection 2018 we had no problem, no issues. In 2021 this issue came up that we need to back up our data into the Cloud and it is really part of the data management. And they basically said we can continue our, you know, releasing commercial products; we can continue our work. We just need a commitment for you to get that done; and since then we have gotten it done.

Q And so were any warning letters issued following 483s?

A No.

Q Did -- what is Emery Pharma's status with the FDA today?

A We are in the process of making those data managements happen and they're completely satisfied with that.

Q And so one of the things I take it you learned from that most recent inspection, if not earlier, was that data management, data preservation and documentation are extremely important as it relates to product testing, product release and

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product validation measures.

Data storage and back up are important primarily -- you know, it's part of their risk management strategy data integrity program making sure the data is always there. You know, if God forbid the facility catches fire or there is an earthquake, we want to make sure the client's data are there somewhere else. And that's something that we had a backup system on the premises, but that was not acceptable to them.

So, understanding the importance of data preservation --

Into the cloud. They wanted an offer Α side data storage.

> Let me ask my question, please. 0

Α Sorry.

You're understanding the importance of 0 data preservation, I'm sure, then, you can tell us with absolute certainty that all of the records -that there will be records relating to all of the valsartan testing that your lab has been doing since early 2018, correct?

That includes every data preservation Α that that we have ever generated needs to including valsartan that needs to have it back, have a back up

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1	outside of our facility.
2	Q That would mean you'd have data on the
3	acquisition of samples, correct?
4	A Data on everything; acquisition. You
5	know even if somebody deletes the data or what have
6	you, everything needs to be backed up.
7	Q And so it needs to be backed up and
8	you've done that on the valsartan testing you have
9	data on acquisition of samples, correct?
10	A Acquisition of all samples including
11	valsartan. All samples need to have an off site
12	backup facility.
13	Q You'll have data of custody for all
14	valsartan samples?
15	A Yes, we do.
16	Q You'll have standard point operating
17	procedures and policies outlining the protocol that
18	weren't followed in connection with the test methods
19	that were used on the valsartan products, right?
20	A As an FDA registered, FDA inspected
21	GLP/gmp-compliant lab, everything we do is SOP
22	driven. So we have SOP's on everything.
23	Q Because you can't conduct a test and
24	then develop the protocol later, right?
25	A No.

Page 115 1 MR. NIGH: Objection. 2. 0 So you would be able to provide us 3 with a protocol pursuant to which all this testing was done, correct? 4 5 If it's not privileged, yes. 6 0 And do you have -- and you certainly 7 have all the test results for all of valsartan 8 samples that have been tested since the early 2018, 9 right? 10 Α Absolutely. We have the test results 11 and we have reports, everything. If it is not 12 privileged, it would be available. I'll represent to you that the 13 0 14 valsartan issue came to the attention of the FDA in 15 June of 2018. 16 А Right. 17 And your public statements that -- one 18 of which we marked as Exhibit 8 is you started 19 testing valsartan in early 2018. Are you suggesting 20 that you were doing valsartan testing for 21 nitrosamines prior to the time the FDA was even 2.2 aware that there was a potential issue? 23 Form objection. MR. NIGH: 24 Should I answer? THE WITNESS: 25 MR. NIGH: Yes.

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A So initially the valsartan issue was brought to our attention by a pharmacy out of Connecticut called Valisure. I think we mentioned their name in some of our blogs and big releases and they brought it to our attention. They wanted to test valsartan and they wanted us to test it for them. They had some testing mechanisms and they wanted us to confirm that. We did draw some samples for them, some pills and we did confirm that. That's our beginning of our engagement in the valsartan arena and that was in 2018.

In 2019 we got engaged by law firm that is not on this call, I believe, and they are -- so a lot of the work we did relates to that but, yes, 2018 was our initial work with valsartan.

Q And so -- thank you. That makes more sense to me now. So the initial work that your lab was doing with respect to analysis of valsartan was done at the request of Valisure, not a lawyer?

A No.

Q Bad question on my part.

A That's correct. The initial work we did on valsartan was done at the request of Valisure.

Q And you would have, consistent with

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Page 117 1 your labs, stated desire to follow good laboratory 2. practices, you would have all of the chain of 3 custody sample, acquisition data, protocol data, test validation data and testing summaries from that 4 5 Valisure work? 6 Α Yes, I do. 7 0 None of which has been provided to me, right? 8 9 Α I don't believe so. 10 Do you know what the results of that 0 11 work was, what nitrosamine did you test and what 12 were the results? You know, I wasn't sure if any of 13 Α 14 these things are subject of our -- you know, my 15 declaration, but the results were very high levels 16 of nitrosamines, high levels of NDMA in the 17 thousands of nanograms. 18 Do you know whose valsartan you were Q 19 testing? 20 Α No. 21 0 In 2018 at the request of Valisure? 2.2 Α No, I don't. We have records of that. 23 We should be able. Right off the bat, I don't. might have been Mylan, Teva, Aurobindo, a number of 24 2.5 manufacturers we might have been testing.

Page 118 1 If we go back to your declaration for 2. a minute -- bear with me a minute. My exhibits 3 disappeared from my screen, so we have to find it again. If we go to your declaration, we marked it 4 5 as Exhibit No. 1? Would you mind? I'd like to take a 6 Α 7 quick break, five minute break. MR. NIGH: Yeah, let's take a ten 8 9 minute break. 10 THE WITNESS: Ten minute break? Okay. 11 THE VIDEOGRAPHER: The time is 12:47. 12 This ends Media 3. 13 (A recess was taken.) 14 (After the recess the following 15 occurred:) 16 THE VIDEOGRAPHER: The time is now 17 This begins Media 4. You may proceed. 1:00. 18 BY MR. TRISCHLER: 19 I wanted to ask you a couple followup 20 questions on some of the issues that we covered 21 before the last break, Doctor. We talked about the 2.2 2021 FDA inspection of Emery Pharma. Do you recall 23 that? 24 Α Yes. And what I wasn't clear about is what 2.5 0

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Page 119 1 is the current status of that 483, is it open or closed? 3 It's in the process of closing, Α because what happens is you're working toward 4 5 getting, basically, backup system, Cloud system 6 essentially working, you know, and validated an all 7 So that's been in the process of of that. implementation and validation as we speak. 8 9 0 So "in the process" means that it's 10 still open? 11 It's still open. Α 12 And is your lab on OAI status? Q 13 Α What's OAI? 14 Official action indicated, I think is 0 15 what it stands for. 16 I have to check with my QA people. Α 17 0 Was an establishment inspection report 18 issued; do you know? 19 I don't know. Α 20 What -- and then going back to your 0 21 early valsartan work in the early part of 2018, you 2.2 said that that was prompted by a contact from 23 Valisure that asked you to do some testing. Can you 24 tell me who or what information you received from Valisure that caused them to be interested in 2.5

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testing valsartan before the FDA was even aware of an issue?

A So, you know, to be very frank to you, I don't know whether it was done before FDA official recall or after. I would have to check on that, but I was contacted by the president of Valisure David Light and he wanted us to check the levels of NDMA in valsartan.

Q And you agreed to do that at his request?

A And he had data already. He also had GCMS data that showed high levels of NDMA genotoxic compound, and so I was very concerned because actually my mom was taking valsartan a few years ago, so I agreed to do the work. We might not have even charged them.

I think we probably charged them, I don't know, but we ran the same pills that they had ran and we corroborated their data that indeed there were high levels of NDMA in valsartan, and we might have tested for NDEA as well. I'm not sure.

Q What test method did you utilize during that initial testing?

A We used two or three official FDA methods that has been published. I think we used

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Page 121 1 one of those methods. 2. 0 Well, the FDA didn't publish -- this 3 is the thing that's confusing to me trying to piece together the timeline. FDA didn't publish a test 4 5 method for nitrosamine testing until the fall of 6 2018. 7 Α Right. 8 MR. NIGH: Form objection. 9 0 So that's why I asked what test method 10 were you and Valisure running. 11 I would have to get that. I don't 12 For the purpose of this deposition I really 13 was not prepared to discuss any of that, but I am 14 not prepared. It's not in my declaration. 15 So let's go to the declaration, if I 16 It's paragraph -- first part I want to talk to 17 you about is paragraph 2 of the declaration I think 18 you said you have in front of you, Doctor. 19 If you want me to elaborate on that, a Α 20 lot of that was published in citizen petition by 21 Valisure and I think some of our data I think he 2.2 mentioned the data levels and all of that and the 23 methods may be actually there as well. 24 0 Were you talking about the Valisure 25 petition relating to ranitidine?

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Page 122 I think they did have 1 Valsartan. Α 2. something on valsartan as well. 3 Did you ever file a citizens petition 0 related to valsartan? 4 5 Α No. 6 0 And when I say "you," I also mean 7 Emery Pharma? Α 8 No. 9 0 You think Valisure did? 10 Maybe I'm mistaken. I think they Α 11 You can Google it. I may be mixing it with 12 their citizen petition relating to ranitidine. 13 0 I'm glad you brought it up, because it 14 sort of led to another question that I had that 15 wasn't clear to me. 16 You were quick to tell me that part of the 17 mission statement of Emery Pharma is to save lives 18 and preserve the environment. Do you remember 19 telling me that? 20 FDA -- I mean Emery Pharma's mission 21 is to helping our client save lives and save the 2.2 environment. 23 And that was part of the rationale 24 behind your issuance or decision to prepare and 2.5 submit a citizens petition relating to ranitidine?

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A We filed -- a lot of the work we did on ranitidine was done at our own expense, at our own behest primarily for the safety of the public.

And we do that all the time; public comes to us and they want us to look at something. If they don't have the proper funding, we do it at pro bono and we check the drug for various impurities and problems.

Q But the work you're doing in ranitidine and valsartan is not pro bono, is it?

A So some of the work may be pro bono.

A lot of the work that we did on ranitidine citizen petition, almost 100 percent of the work that was done for citizen petition was pro bono.

Q Okay. Why did you never submit a citizens petition with respect to valsartan?

that. I think there wasn't any necessity for that. I think there was -- you know, obviously valsartan, it was recalled and I think Valisure was making a lot of noise, so it was already the public was alerted. And my goal as the CEO of Emery Pharma is if there is a problem with a drug, I will alert the FDA through some form of petition, and we recently actually filed a citizen petition on vitamin B6. You may be taking vitamin B6. You may want to read it; and, again, entirely at our own

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Page 124 1 expense. Is that your second citizens petition 0 3 then that you were submitting? 4 Α Yes. 5 Have there been any others since then? 0 6 Α No. 7 And you said Valisure was making a lot of noise about valsartan, but have you ever seen a 8 9 citizens petition from them? 10 Α I don't recall. 11 With regard to valsartan? 0 12 My memory is failing. I think -- I Α 13 don't think valsartan -- I mean, you guys can google 14 it, whether Valisure filed any citizen petition on 15 valsartan. I don't think so. I think they just 16 made a lot of press release, but I think the 17 valsartan was removed from the market primarily due 18 to Novartis finding genotoxic compound NDMA in 19 valsartan from GMP and then effectively FDA was 20 alerted. I think that's how the things kind of --21 how sort of everything fell into the, you know, 2.2 basically the recall. 23 Did you have any -- have you ever had any communications with Novartis about valsartan 24 25 testing?

	Page 125
1	A None.
2	Q Have you ever had any communications
3	with Novartis about Diovan testing?
4	A None.
5	Q Have you ever had any communications
6	with Novartis about Exforge testing?
7	A None.
8	Q So going to paragraph 2 of your
9	disclosure or declaration excuse me, I want to
10	ask you about the last sentence in particular where
11	you talk about the methodologies that you employed
12	in formulating your opinions in this case and you
13	write, "These methodologies used in formation of my
14	opinions are also used by Emery Pharma in making
15	recommendations to our pharmaceutical clients." Did
16	I read that correctly?
17	A Yes. Just let me read it. Yes, I
18	agreed with that.
19	Q And based on what you already told me,
20	I take it you're not going to tell me who your
21	pharmaceutical clients are you are referring to in
22	paragraph 2?
23	A I cannot. We are under
24	confidentiality.
25	Q So you can suggest that you're

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1	following a methodology that you employ about your
2	clients but then conveniently not tell me who the
3	clients are, right?
4	A We are under obligation from the
5	clients not to disclose their name.
6	MR. NIGH: Form objection.
7	Q Are any of these clients defendants to
8	the ranitidine litigation?
9	A No.
10	Q Are any of them defendants to the
11	metformin litigation?
12	A No.
13	Q Are any of them defendants to this
14	litigation, if you know?
15	A No.
16	Q Are any of the unknown undescribed
17	clients that you make reference to, are any of them
18	generic drug manufacturers?
19	A No.
20	Q Did any of them manufacture ARBs?
21	A No.
22	Q So you don't have any clients that you
23	would be advising on the contents of an abbreviated
24	new drug application, correct?
25	A We do have clients that we advised on

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the contents of new drug application and abbreviated new drug application. However, none of them are the defendants. None of them are the plaintiffs. of them are manufacturing ARBs as far as I know and, you know, these are -- we work on mostly branded products, some generic, sort of modified generic, branded generic but nothing to do with ARBs.

Well, what generic -- excuse me. 0 What. generic products are you working on with generic drug manufacturers?

I can't think of it right now. a number of them -- there are a number of products that we are working on.

Well, if these products have a patent 0 there is no secrecy to the identity of the active pharmaceutical ingredient that you're working on with the --

I can't recall off the top of my head Α what generics we're working on.

So as you sit here today you can't tell me a single generic product you're advising a client about?

> Α No.

0 Have you ever told any of your pharmaceutical clients who manufactured generic

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Page 128 drugs that their products are adulterated if their 1 impurity profiles do not match the RLD? I have told our clients that if their 3 Α impurity profile contains a genotoxic compound, we 4 5 will let them know. 6 Thanks. That wasn't my question. My7 question is have you ever told your clients that 8 they will be producing an adulterated generic 9 product if they have an impurity profile that does 10 not match the RLD; is that advice that you've ever 11 given to your pharmaceutical clients in the real 12 world? 13 Α Okay. So, here is my answer. Ιf 14 their impurity profile -- you know, their impurity 15 profile may not match the RLD. However, if their 16 impurity profile contains genotoxic compound, we 17 will let them know and we will help them to prevent 18 formation of genotoxic compound. 19 That's fair. So the mere 0 Okay. 20 differences in the impurity profile alone does not 21 make a drug adulterated? 2.2 Α Right. 23 MR. NIGH: Form objection. 2.4 Α Mere --2.5 THE WITNESS: Can I respond, Daniel?

Page 129 1 MR. NIGH: Yes. 2. Α A mere difference -- we have repeated 3 this question many times. I will repeat it. Hopefully you guys can go back and see I am very 4 5 consistent. Mere difference in the impurity profile 6 so long as there is no genotoxic compound, it's 7 fine. And the fact of the matter is the FDA 8 0 9 permits variability in purity, size, strength and 10 other parameters when evaluating an abbreviated new 11 drug application, agreed? 12 FDA allows variability in the impurity 13 profile with respect to the reference listed drug as 14 long as it does not contain genotoxic compound --15 0 And we talked about --16 -- namely nitrosamines. Α We talked about the acceptance 17 18 criteria for impurities as published in the USP 19 being no more than 0.1 percent. Do you remember 20 that? 21 I remember the acceptance criteria of 2.2 the USP not showing any NDMA and not having any 2.3 limits on the NDMA. To me that means zero NDMA. 24 0 So the fact that what the USP monitor 25 says is that unknown impurities can be no more than

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1	0.1 percent, right?
2	A Unknown non genotoxic impurities can
3	be around .1 percent or a little higher.
4	Q But what you're saying is the
5	monograph itself is silent as to genotoxic
6	impurities, correct?
7	A Their silence is because they assume
8	zero NDMA. They assume zero genotoxic brought.
9	Q And that's written nowhere in the
10	monograph itself or in any USP publication, correct?
11	A Exactly. Because it's not written, it
12	means it should be nonexistent.
13	Q And
14	A Because the RLD was nonexistent,
15	because the Diovan and Exforge had no NDMA.
16	Q Are you aware of any drug manufacturer
17	anywhere in the world that was doing
18	nitrosamine-specific impurity testing prior to FDA's
19	notification of the potential for nitrosamine?
20	A Yes, I am. I am aware.
21	Q In 2018?
22	A Yes, I am aware of a pharmaceutical
23	company that does test for NDMA.
24	Q And who is that?
25	A Novartis, at least one which is

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Page 131 1 Novartis. 2. 0 How do you know -- excuse me. How do 3 you know what test methods Novartis was using prior to June of 2018, what's your source of information? 4 5 MR. NIGH: Outside the scope. 6 Α Prior to 2015 -- sorry, 2018, all I am 7 aware is that Novartis discovered the NDMA in the ZHP product and it's because they were looking for 8 9 They found it. They were testing it. They had 10 space and they saw the impurity and identified the 11 impurity. It takes no more than 10 minutes by 12 running a GCMS to identify NDMA. 13 0 My question is what is your source of 14 information that Novartis was doing nitrosamine 15 testing prior to June --16 Public information. А 17 MR. NIGH: Outside the scope. 18 Q Can you cite me to that public information, because I've never seen it. 19 20 MR. NIGH: Outside the scope. 21 Α European medical authority has written 2.2 about it. It was to, you know, basically -- I think 23 that's part of EMEA in one of their reports I recall 24 seeing it that they mentioned that Novartis saw it or maybe it was chemical engineering news, but I 25

		Page 132
1	think you can	Google it. You should be able to see
2	Novartis. Ju	st type in Novartis nitrosamine
3	impurity. I	think you will run into chemical
4	engineering n	ews. I might have been cited there was
5	well.	
6	Q	Didn't you develop specialized test
7	methods to te	st for nitrosamines in the latter parts
8	of 2018 and 2	019?
9	A	I don't believe so.
10		MR. NIGH: Objection. Outside the
11	scope.	
12	A	I don't believe so. I think we used a
13	standard nitr	osamine methodology.
14	Q	Did you develop a liquid LCMS method?
15	A	We did. We developed our own LCMS
16	method primar	ily not for valsartan, but for other
17	drugs.	
18	Q	For Zantac?
19	A	Yes.
20	Q	So if we look at
21	A	And beyond Zantac. We also tested
22	probably 20 o	ther drugs as well.
23	Q	Twenty other drugs for nitrosamines?
24	A	Yes.
25	Q	How did you pick what 20 drugs you

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were going to test?

A We look at structural clues. You look at structural clues in a pharmaceutical molecule and you say this molecule could be prone to NDMA formation and that's called structural clues. If someone skilled in the art of chemistry looks at valsartan synthesis, there are -- it's shouting. That synthetic route is shouting that it's going to be forming a NDMA. We use those kinds of structural clues to look at other compounds to see whether they form NDMA or not.

Q What are the 20 other drugs you tested?

A I can't -- off the top of my head I can't recall.

O Can you recall any of them?

A We looked at -- obviously we looked at nizatidine, which is a cousin of ranitidine. We looked at famotidine, which is also an anti-acid. We looked at a whole bunch of antacids, you know, and we might have looked at some over-the-counter sort of diphenyl hydramine; you know, things like that.

MR. TRISCHLER: I'm sorry. I need to take a break. I've got something I need to take

Page 134 I had an appointment scheduled for 4:30 1 2. that I realize I'm going to have to cancel, so I 3 need a couple minutes to take care of that. Sorry, 4 Dan. 5 MR. NIGH: What's the problem? Let's take a ten minute break. 6 7 The the time is THE VIDEOGRAPHER: 4:24. We are going off the record. 8 9 (A recess was taken.) 10 (After the recess the following 11 occurred:) 12 THE VIDEOGRAPHER: The time is now 13 1:36. We're back on the video record. 14 BY MR. TRISCHLER: 15 So, Doctor, you have told me that it 16 is -- that it's your opinion that a drug company 17 should not sell a product with any nitrosamines, 18 correct? 19 That's what I said. Α 20 And we talked about the fact that the 0 21 regulations allow unknown impurities as high as 2.2 300,000 nanograms for a 320-milligram tablet 23 product, you interpret that requirement that USP 24 specification as saying it applies only to non geo 2.5 toxic?

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1	A Genotoxic.
2	MR. NIGH: Form objection.
3	Q Right. It applies only to non
4	genotoxic?
5	MR. NIGH: Form objection.
6	A I don't understand your question. My
7	apologies. Could you repeat?
8	Q Yes, I will ask again.
9	A Could you ask a specific question?
10	Q I will ask it again. I was trying to
11	make sure I understood your testimony. I think I
12	do, but what you've told us is the USP specification
13	that allows for unidentified impurities to be as
14	high as 300,000 nanograms in a 320 milligram product
15	only applies to non genotoxic impurities?
16	MR. NIGH: Form objection.
17	A That applies to non genotoxic
18	impurities.
19	Q Right. If I misspoke, I apologize.
20	A Right.
21	Q That's what I understood, and that's
22	because you interpret the absence of any
23	specification in USP as a dictate or a mandate that
24	the requirement for genotoxic impurities must be
25	zero?

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MR. NIGH: Form objection.

A Let me explain. So requirement for genotoxic impurities are far lower than regular impurities. So you must have a lot less genotoxic impurities in your drug and the levels are listed. In the case of specifically nitrosamines and specifically NDMA, the requirements should be zero.

Q And you indicated that you were aware of at least one company prior to 2018 that was testing its product and making sure that its valsartan nitrosamine levels were zero, and that company was Novartis?

MR. NIGH: Form objection.

A As far as I know, there may be many, many more companies testing their compounds for nitrosamines, but as far as I can tell from, basically, public records, you know, NDMA -- obviously Novartis looked for NDMA. Novartis found NDMA in their API, and I can only give you my opinion that Novartis perhaps -- they buy a lot of APIs from China and India. Perhaps they look for NDMA in every API they buy.

Q And do you -- you indicated that or you offered the opinion that a drug company that sells a pharmaceutical product that contains a

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genotoxic impurity at any level or any concentration is not equivalent to the reference listed drug because the reference listed drug does not have genotoxic impurities, right?

MR. NIGH: Form objection. You could answer.

It's in the hundreds of parts per million, maybe even much less.

In the case of nitroso, nitrosamines and the n-dimethyl nitrosamine the requirements are zero because this is a genotoxic, DNA reactive, cancer-causing molecule. And furthermore, FDA says the levels should be zero because there are synthetic methodologies. In layman's terms there are recipes to make valsartan without any NDMA, so manufacturers should use that recipe. And, you know, that's my opinion and I think the levels should be zero for NDMA.

For other genotoxic compounds there are specific levels and one has to consult with ICH guidelines, ICH M7 for those levels.

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Q Okay. Well, that's fair. I'll try to confine my questions to NDMA and NDEA. Okay?

A Thank you.

Q And if I understand your opinion, what you've told us is that you're of the opinion that a generic formulation that contains NDMA or NDEA is not equivalent to Diovan or Exforge, because those reference listed drugs have zero NDMA and zero NDEA?

A The generic drugs that contain NDMA do not meet the requirement. I have not tested Diovan or I have not tested Exforge. I can only assume that they are -- they have zero NDMA because they were not recalled, so that's what I said.

Q Well, yeah, and that's what I wanted to get at in terms of trying to understand what we have here today.

The opinion that we framed earlier was -- that you intend to offer is that the generic drugs made by valsartan-containing medications made by my client and some of the other defendants for this litigation, you do not believe those drugs are equivalent to the reference listed drug, because you have assumed that the defendant's generic products contained NDMA and NDEA and you assumed that the Diovan and Exforge did not?

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Page 139 1 MR. NIGH: Form objection. 2. 0 Right? 3 If the manufacturer does not comply Α with the impurity limits which is really zero, they 4 5 are responsible -- and they change their procedure, 6 they change their recipe, they change the way they 7 make something, then they need to -- there are these alerting structures. I'm kind of giving away a lot 8 9 of my opinion that will come later, which is there 10 are alerting structures. These are clues for you. 11 Those alerting structures were ignored and, hence, 12 they now have to deal with NDMA and all the issues 13 and --14 I appreciate the sneak preview, but I 0 15 honestly don't want to go there. What I just want 16 to understand is --17 Α The assumption. 18 Perhaps if you will let me explain, I 0 19 can ask a question that's fair and easy to 20 understand, Doctor. I just want to make sure I 21 understand the assumption that forms the basis for 2.2 your opinion that you've offered so far in the declaration we have. 2.3 2.4 You told me that there's two core opinions. One of them is that generic drugs at issue in this 25

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Page 140 litigation are not equivalent to the reference listed 1 2. drug and you have reached that opinion based on the 3 assumption that the reference listed drugs contain zero NDMA and zero NDEA, right? 4 5 Α Mm-hmm. Is that "yes"? 6 0 7 Α Yes. 8 0 Okay. And one of the things that 9 jump-started you in this arena and I presume 10 provides you some basis for that assumption is you 11 started working with Valisure on nitrosamine testing 12 of valsartan before there was even litigation, 13 right? 14 Α So, Clem, as I have stated before, I'm 15 not sure when we have actually officially started 16 with Valisure. It might have been before, it might 17 have been after, but that's what I can tell you. 18 Fair enough. Q 19 I'm sure if Daniel would be okay, I Α 20 can, you know, get that information to you. 21 0 Fair enough. 2.2 Α But the fact remains that whether if 23 before or after we tested your client's pills, maybe 24 your client's pills, honestly I don't know, I'm not 25 prepared to tell you what we have until I can give

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you reports of those, but they had high, high levels of these genotoxic compounds. And I wouldn't want anybody to be taking those drugs, you know, on long term basis because that would be -- you know, that wouldn't be good whether it would be my mother or your mother.

Well, my mother already passed, so I'd be happy to have her take valsartan with or without genotoxic impurities right now.

> I'm sorry to hear that. Α

But be that as it may, what I was --0 and I didn't mean to misstate your testimony about the timing of your work with Valisure. You did tell me you couldn't be sure whether it was before or after the FDA involvement, so I grant you that.

> Α Yes.

But what you did talk about and what 0 you did explain to me was that Valisure brought the issue of the potential for nitrosamines in valsartan to your attention and sort of asked you to help with the testing and evaluation, right?

> Α One hundred percent.

Okay. And so you had a chance to look 0 at the testing that was done by Valisure early on on the valsartan and to independently validate it

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Page 142 through the work of your own lab? 1 2. Α Yes, we did. 3 So there is no question in your mind that the results of testing as documented by 4 5 Valisure and its findings on nitrosamine contents in 6 valsartan were accurate? 7 Α We repeated Valisure's work according to our own procedures and we, I think we -- the 8 9 result what we told Valisure was that the numbers 10 they got was pretty much in the ballpark. 11 MR. TRISCHLER: Did anyone hear the 12 doctors' answer? I saw his lips moving but didn't 13 hear anything. 14 MR. NIGH: I could hear it. 15 Α I said. Let me repeat. Can you hear 16 me okay? 17 Now I can. 0 18 Okay. What I said was we concurred Α 19 with Valisure that they had correct nitrosamine 20 numbers for their valsartan pills and they sent to 21 us the same pills that they tested. I specifically 2.2 warned Valisure to get it tested at a third-party 23 He called me, asked me for my advice. I said 24 you want to get it at a third party lab to make 25 I think he was planning to do some press

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release or something, and that's what we did. And we told them yes, I think, and then he basically did something with that data. So...

Q Okay. And then you mentioned -- and so essentially I think you just answered what my question was. My question was, did you have the opportunity and did in fact independently corroborate the Valisure data as it related to valsartan nitrosamine quantification?

A That's correct. We corroborated their data.

I shouldn't say early on. You paid mention before our last break about a citizens petition and you suggested that you thought somewhere in your memory bank that Valisure might have done a citizens petition that might have related some way or somehow to valsartan. Do you remember that?

A Yes. I don't think they have.

Q I found something I want to ask you about, and Frank from my office is there.

MR. TRISCHLER: Frank, do you have the June 13, 2019, Valisure citizens petition and can you have that marked as the next numbered exhibit?

MR. STOY: Yes. I just uploaded it a

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Page 144 minute ago. Bill, do you have it? 1 2. THE VIDEOGRAPHER: I have it. I am 3 downloading it. Just give me one moment. For the record, that would be Exhibit 28 is the next one in 4 5 line. 6 MR. TRISCHLER: Okay. Can you put up 7 Exhibit 28, please. This is on the Valisure letterhead 8 dated June 13, 2009. 9 10 Α Right. 11 Take a look at the first couple 0 12 paragraphs. Does it refresh your recollection at 13 all? 14 Α Now I recall. I think they did file 15 something with the FDA, but this is regarding DMF, I 16 think. 17 You're correct that it does relate to 18 dimethylforamide which is DMF, right? 19 Α Dimethylformamide. 20 Formamide, okay? I'll try to do 0 21 better. I didn't do very well in chemistry. 2.2 Α No, no. I just get insulted when they 23 mispronounce these chemical names, that's all. worries. 24 2.5 I was trying to say the chemical name Q

		Page 145
1	to distinguish	from DMF to refer to drug
2	A Ye	eah.
3	Q So	o dimethylformamide is subject of
4	Exhibit 28, corr	rect?
5	A Co	orrect.
6	Q Bu	at there's also reference to NDEA
7	testing was done	e by Valisure IN this citizens
8	petition, correc	ct?
9	A R	ight.
10	Q As	s I said, you saw this citizens
11	position before	
12	A R	ight.
13	Q Ar	nd you had validated the test results
14	that are reporte	ed in here?
15	A Ye	es.
16	Q Ar	nd if we look at Appendix A to the
17	report, what we	have is a summary of NDMA levels and
18	DMF levels in va	alsartan tested by Valisure and
19	confirmed by you	ır lab?
20	A D:	id they mention our name in this
21	report, can you	Google it?
22	QI	don't know, but
23	A I	f they didn't mention our name, then
24	we didn't have a	anything to do with it.
25	Q We	ell, you already told me that you had

Page 146 validated their testing and corroborated the 1 2. results, right? 3 Α NDMA? 4 0 Right. 5 NDMA, but that's if they mentioned our Α 6 name, then it would be corroborated, but if they 7 didn't mention our name, it was on their own. Well, I only planned on asking you 8 0 9 about the NDMA results reported in this. 10 Α Please. 11 As you said at least five or six times 0 12 it's called by Valisure to corroborate their data? 13 Α Yes, but you know -- okay. Go ahead. 14 MR. NIGH: Form objection. 15 0 So if you look at the Appendix A, 16 you're looking at the first page there. If you flip 17 to the next page, page 10, there's more results 18 reported. Do you see that? 19 Α Right. 20 Page 111 there's more results 0 21 reported? 2.2 Α I don't think we tested that many 23 different pills and lots for them. 24 0 I am only asking about what's shown 25 here in the document. There's more testing

		Page 147
1	reported, cor	rect?
2	А	Okay.
3	Q	And the manufacturers whose product
4	was tested was	s also identified in Appendix A,
5	correct?	
6	A	Mm-hmm.
7	Q	Is that "yes"?
8	А	Yes.
9	Q	Interestingly, one of the
10	manufacturers	is Novartis.
11	A	Okay.
12	Q	And if you look at page 12, there is
13	results of sev	ven test samples of Novartis product
14	listed, correc	ct?
15	A	Right.
16	Q	There was NDMA found in every single
17	Novartis table	et, correct?
18	A	Yes.
19	Q	Is that correct?
20	А	That's what you're showing me.
21	Q	So your assumption that underlies your
22	opinion in th	is case that Novartis' valsartan
23	contained zero	NDMA is not supported in the testing
24	done by Valis	are and it was validated by your lab.
25		MR. NIGH: Form objection.

Page 148 1 MR. TRISCHLER: What's that? 2. MR. NIGH: I just said "form 3 objection." 4 MR. TRISCHLER: I meant what's that to 5 the witness. And I respond to that I'm not -- I 6 Α 7 cannot confirm to you that we corroborated it everything that Valisure is presenting in this 8 9 report vis-a-vis the fact that our name has not been 10 mentioned on this citizen petition. 11 Typically if we do not corroborate something, 12 they shouldn't put our name. If they are not putting 13 our name, it means we didn't have anything to do with 14 these. 15 Your assumption that Novartis, Exforge 0 16 and Diovan formulations contained zero NDMA is not 17 supported in the data from the citizens petition of 18 Valisure, is it? 19 Based on what Valisure is reporting Α 20 to, you know, I cannot corroborate their data 21 because we didn't do it. This is their data. 2.2 And their data does not support your 0 23 That's all I asked. assumption. 24 Α If their data is correct -- you know, 25 I don't know if they are data is correct.

Page 149 having said that, you know, Clem, the levels that 1 2. were -- the interim allowable limit of NDMA, as you 3 know, is 96 nanograms. So under the recall, official recall and notice, anything under 96 4 5 nanograms would not be recalled. So Novartis would 6 not be a recalled product. 7 I didn't ask you if it would be a recalled product and you were also very clear to me, 8 9 Doctor, that NDMA and NDEA content in its drug 10 product must be zero. You said that five times to 11 me. 12 That should be the goal of the 13 manufacturers to have zero NDMA and NDEA. 14 And you criticized my clients because 0 15 they had NDMA and NDEA levels higher than zero. 16 They had levels of 2,000 and 3,000 Α 17 nanograms. 18 MR. NIGH: Hold on. Hold on. Hold 19 Hold on. Form objection. Does he even know on. 20 your client? 21 MR. TRISCHLER: He's your expert. Ι 2.2 don't know. 23 Okay, because we are MR. NIGH: 24 getting way off comment on some of these topics. Не 2.5 has not said in terms of your client.

Page 150 1 MR. TRISCHLER: He just said my 2. client. 3 Dose levels of 2,000 nanograms; is 0 4 that your testimony, sir? 5 I don't -- I am going on what was 6 published by FDA. So you can Google that and see 7 what FDA was published and double check that to see 8 if your clients is part of that FDA recall and FDA 9 numbers. 10 I can do a lot of things, Doctor. Ι 11 spend way too much time online. What I'd like to do 12 is ask you questions. And my question is, is it 13 your testimony that Mylan had NDEA reported at levels of 2,000 to 3,000 nanograms in its 14 15 valsartan-containing products? 16 MR. NTGH: This is far outside the 17 scope of his certification and declaration at this 18 point. I mean, you can read it. He doesn't mention 19 a single thing about Mylan. 20 MR. TRISCHLER: He volunteered and I 21 am allowed to follow that up. 2.2 MR. NIGH: No, that's not actually 23 I have a lot of questions to go far outside 24 the scope at this point, but this is way outside of 2.5 the scope of his seven page declaration.

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single place in here does he ever mention any of the defendants' testing levels and I think you know that. So, again, at this point we're getting way outside. I have allowed some exploration at some point, but this has no basis in his declaration at this point.

MR. TRISCHLER: I think I'm entitled to an answer to the question. You've objected. You can argue whether --

MR. NIGH: I am going to instruct him not to answer at this point. We have gone far outside the scope.

MR. TRISCHLER: Just so that I'm clear, the witness stated that my client had levels of 2,000 to 3,000 nanograms and you are not allowing me to follow up on that?

MR. NIGH: Just so you're clear, I think that question was far outside the scope in the first place. He is not here to offer an opinion as to what the levels are or your client's levels. He is not here to offer an opinion as to what any of the clients' levels are. His opinion clearly states valsartan which contaminated NDMA or NDEA, period, not about levels.

Q You told us, Doctor, generic drug

Page 152 products contain any NDMA, NDEA is not equivalent to 1 2. Novartis who is the reference listed drug holder, because Novartis' levels are zero. The data from 3 Valisure suggests that that's not true. Agreed? 4 5 My position is that levels of NDMA and 6 NDEA should be zero in any valsartan pills. 7 Novartis might have some valsartan at higher level, have some NDMA in it. They might have had -- in 8 9 fact, they were buying -- from my understanding they 10 were buying ZHP's API and they were using ZHP's API, 11 so I am not surprised they ended up with some NDMA, 12 but prior to ZHP and any of the defendants' products 13 Diovan and, you know, Exforge going generic, I 14 believe they had their procedure, their process 15 produced no NDMA. 16 Have you ever reviewed the new drug 17 application for Diovan? 18 I have reviewed a lot of documents, Α 19 yes. 20 I didn't ask if you reviewed a lot of Q 21 documents. Have you ever reviewed the new drug 2.2 application for Diovan? 23 I have reviewed it. Α 24 0 Where did you get it? 25 Α You know, I think maybe, you know, the

Page 153 1 plaintiff's lawyer shared it with me. 2. I'm surprised that Novartis would turn 3 over their proprietary documents to the plaintiff's lawyers. So your testimony is you've seen the new 4 5 drug application? I might have seen it. I reviewed a 6 Α 7 lot of different documents. Well, it was not disclosed or provided 8 0 9 in any of the materials that were given here to me. 10 Α I cannot recall, but I reviewed a lot 11 of different documents relating to valsartan 12 manufacturing; valsartan -- you know, there is a lot 13 of public information regarding the manufacturing 14 process. 15 Chemistry manufacturing controls 0 16 submissions as part of Novartis' new drug 17 application. It's not public information, is it? 18 What is your question? Α 19 I just asked you that one. There is a 0 20 CMC section a new drug application, public 21 information. 2.2 Α What is your question? I will ask it a third time. Is the 23 0 24 CMC section of a new drug application public information? 25

Α

Page 154 1 CMC section shouldn't be public Α information. 3 So I am trying to understand your 0 testimony under oath that you've seen and been 4 5 provided with the NDA for Diovan. Where did you get 6 it? 7 I said I have reviewed. I didn't say Α I've seen it. I said I have reviewed a lot of 8 9 documents, you know, from different manufacturers, 10 perhaps including Novartis' procedures, but 11 Novartis' procedures and chemical manufacturing 12 procedures has been disclosed in their patents. 13 It's been published. There's plenty of literature 14 on it. 15 So if I hear what you're saying now 0 16 and if we're looking for honest, forthright 17 testimony, it sounds like you don't know whether 18 you've seen the NDA for Diovan, correct? 19 MR. NIGH: Form objection. 20 I don't know if I've seen it. Α 21 In your career, sir, have All right. 2.2 you ever prepared an abbreviated new drug 23 application seeking to obtain FDA approval to market 24 any generic equivalent drug product? In my career I have been involved in

	Page 155
1	many IND filings, CMC sections of IND, CMC sections
2	of NDA, ANDA for my clients, not specifically for
3	any of my own specific products.
4	Q My question was have you ever been
5	involved in preparing
6	A Yes, I have.
7	MR. NIGH: Hold on. Dr. Najafi. Wait
8	until he finishes his question.
9	A Sorry.
10	MR. NIGH: And then answer. We're
11	getting
12	MR. TRISCHLER: Sorry, Dan.
13	Q What abbreviated drug applications did
14	you prepare and submit to the FDA?
15	A Confidential.
16	Q For what drugs?
17	A For drugs that from our clients'
18	drugs.
19	Q Tell me the names of the drugs. The
20	active pharmaceutical ingredients are not
21	confidential.
22	A I can not recall right now. Also,
23	it's client-specific and a lot of our clients don't
24	want to have their names disclosed.
25	Q I haven't asked your client's names.

		Page 156
1	A I	know.
2	Q S	Sitting here today providing let me
3	finish before y	ou start.
4	Sitting	here today providing testimony under
5	oath, you can't	name one drug product where you were
6	involved in sub	mitting the abbreviated new drug
7	applications fo	or its generic formulation, right?
8	A I	cannot recall.
9	Q H	Mave you ever worked in regulatory
10	affairs for a g	generic drug manufacturer?
11	A N	Io.
12	Q H	lave you ever
13	A I	have not worked in regulatory
14	affairs for any	generic manufacturers.
15	Q H	lave you ever worked or been employed
16	by the FDA?	
17	A I	have never been employed by the FDA.
18	Q H	Mave you ever are you familiar with
19	the Center for	Drug Evaluation and Research, CDER?
20	A I	have attended many meetings at CDER.
21	Q H	lave you ever worked with CDER where
22	you've had resp	onsibility for evaluating new drug or
23	new drug applic	cations?
24	A	have not been involved with CDER.
25	You should rest	ate your question.

		Page 157
1	Q	I should or you need me to?
2	А	Please restate your question.
3	Q	Have you ever worked with CDER where
4	you had respon	nsibility for evaluating new drug or
5	abbreviated ne	ew drug applications?
6	A	I have not worked with CDER in
7	evaluating any	y new drug application.
8	Q	Have you ever been retained as a
9	consultant by	FDA office of generic drugs to assist
10	in evaluating	any portion of an abbreviated new drug
11	application?	
12	А	I have not been involved in generic
13	drug division	of the FDA.
14	Q	And I think it's Section 4 of your
15	report your	declaration you describe FDA
16	expectations a	and requirements for generic drug
17	manufacturers	. Do you recall that?
18	A	Could you show it to me?
19	Q	Sure.
20	А	Put it on the screen.
21		MR. TRISCHLER: It's Exhibit 1. Can
22	you put it up	, please.
23	А	Highlight it.
24	Q	Can you flip through it? I think it's
25	section 4. I	think it starts on page 5, maybe, if I

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recall correctly. There we go. Do you see that?

A Yes.

Q And as I was saying, this is the section of your report where I think you proceed to describe what you consider to be the expectations or some of the expectations and requirements for a generic drug manufacturer, right?

A Mm-hmm.

Q Is that "yes"?

A Yes.

Q The fact of the matter is, though,

Doctor, that you're never had personal

responsibility for synthesizing API that was used

for generic drug formulation, correct?

A I have not had responsibility in synthesizing an API for a generic drug manufacturer, but I have been involved in, you know, drug development and I've been involved with lots of FDA-related activities and the spirit of what I have put in is if and when you change the chemical process, if you make lasagna by following step one, step two, step three, and if you change that and you create your own recipe, you have responsibility to do proper due diligence to look at structural molecules that give you structural clue to

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protection problem and you need to disclose that to the FDA and you need to do proper due diligence and effectively look for those, you know, potential problem and look for genotoxic compounds and report it.

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Have you ever developed a synthetic process used for the API of a generic drug formulation?

I have developed synthetic process of hundreds of molecules in my time and I continue to develop processes for hundreds of molecules, but not for a generic drug, but I can assure you I understand the synthesis synthetic procedure of valsartan.

Have you ever had oversight responsibility for manufacturing a generic drug product?

Α I have not had oversight responsibilities for a synthesis of a generic drug product or drug substance, but I've had manufacturing responsibilities for lots of synthetic molecules in large scale at my previous company, Aldridge Chemical, at Rhone-Poulence Pharmaceuticals, et cetera, and NovaBay.

> 0 Have you ever prepared a drug master

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file in connection with an API for a generic drug?

A Not personally.

Q In the notes of deposition that brought us here today, I asked you to provide certain materials to me at the time of the deposition. One of the things I asked for were any and all papers that you prepared on the topic of drug safety and cancer risk. Do you remember seeing that request in the notice?

A Yes, I have.

Q I did not receive any papers or publications on those topics, so I have to assume that you have never published on those issues.

Would that be a fair assumption on my part?

A I have not published on anything, any genotoxic compound, nitrosamines except the citizen petition which we filed with the FDA regarding nitrosamine which FDA corroborated 100 percent, and I've also presented at a generic manufacturing symposium where my audience was a whole huge number of generic manufacturing people.

Q I appreciate that, but my question was a little broader than that. I had asked for all papers and publications prepared on the broader topic of drug safety and cancer risk. Have you ever

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Page 161 1 published on those topics? I haven't published on those topics 3 and what I can -- you know, there are lot of publications. That's really a toxicologist and 4 5 epidemiologist sort of activity. I rely on them. 6 And what you were answering on the 7 topic of nitrosamines what you told me is that you've not submitted any peer-reviewed publications 8 9 on the issue of nitrosamines and drug products, 10 correct? 11 So what's your definition of peer Δ 12 reviewed? 13 0 My definition of peer review would be 14 a publication in a scientific journal that is 15 reviewed by scientists in the field for accuracy, 16 quality and reliability of methods prior to the time 17 that it's published. 18 Our citizen physician, my citizen 19 petition for ranitidine Zantac meets those 20 criterias, so under that circumstance it is peer 21 reviewed. 2.2 So you consider a citizens petition to 23 be a peer-reviewed publication? 2.4 Α Absolutely.

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Who can submit a citizens petition?

Page 162 Anybody can submit a citizen petition. 1 Α 2. 0 If I sent a citizens petition saying 3 Dr. Najafi's declaration in this case is unreliable, has that been peer reviewed? 4 5 You can certainly do that and it will 6 be peer reviewed by FDA scientists and they will then respond to you that Clem, you're wrong. 7 In formulating the opinions that are 8 0 9 contained in this declaration that we're looking at 10 now, did you review any internal Mylan documents? 11 In formulating this last declaration, 12 I don't believe so. 13 0 Did you review by ZHP documents? 14 Α I have reviewed both Mylan and ZHP 15 documents months ago but not in formulating this 16 declaration. 17 And if I ask the same question for the 18 other manufacturer defendants to this litigation: 19 Teva, Aurobindo, Hetero, Torrent; have you reviewed 20 any of their documents? 21 I have reviewed. I've spent hours and 2.2 hours looking at their manufacturing issues, looking 23 at their, you know, all of that, but not for this, 24 you know, putting this declaration together. 25 Q So in terms of those two core opinions

Page 163 we talked about, you don't plan to -- you're not 1 2. relying upon and did not consider any of the -- any 3 internal documents from any of the manufacturers? 4 Α I did not, no. 5 I asked you before if you reviewed the 6 new drug application for Diovan and you said you 7 could not. Just for completeness sake, do you know 8 if you ever reviewed the new drug application for 9 Exforge or Exforge HCT? 10 I cannot recall. I believe I've 11 reviewed a lot of the defendants' material. I might 12 have reviewed some of the publicly available 13 information on the work Ciba-Geigy did which led to 14 Diovan. 15 I've looked at their patents. I've looked at 16 their procedures, their recipes, their synthesis, 17 published data, a lot of that. I have looked at a 18 lot of documents over the last year and a half or so. 19 MR. TRISCHLER: Let's take a break, 20 I want to look at some notes and see what I 21 want to do next. 2.2 Take a ten minute break? MR. NIGH: 23 MR. TRISCHLER: Sure. 24 THE VIDEOGRAPHER: The time is 2:22. This concludes Media No. 4. 25

Page 164 1 (A recess was taken.) 2. (After the recess the following 3 occurred:) THE VIDEOGRAPHER: The time is now 4 5 This begins Media unit 5. You may proceed. 2:48. 6 BY MR. TRISCHLER: 7 Doctor, I just have a few other things 0 8 I want to cover with you. One of the documents that 9 was in your file that I was provided with was a 10 chart entitled "valsartan products not currently 11 recalled." Are you familiar with that chart? 12 Would you bring it up so we can be Α 13 looking at the same thing? 14 0 Sure. 15 MR. TRISCHLER: Frank, are you able 16 to -- it was not in the group of exhibits that I premarked. Are you able to pull it up, Frank, and 17 18 get it in front of the witness? 19 MR. STOY: Yes. Let me try to find it 20 I am going to attempt to share my screen. Is 21 this the document? 2.2 MR. TRISCHLER: Yes, that's it. Thank 23 you, Frank. I guess we will have this marked as an 24 exhibit and sent to the reporter through the chart, but whatever the next numbered exhibit is. 2.5

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1	THE VIDEOGRAPHER: That will be 29.
2	MR. TRISCHLER: Thank you.
3	BY MR. TRISCHLER:
4	Q Doctor, can you see this Exhibit 29?
5	A It is very tiny. Yes, I do.
6	Q It's a 15 page document. At the top
7	it says "valsartan products not currently recalled"
8	dated September 21, 2015, and it was provided to me
9	by your counsel as part of your file. Do you recall
10	that?
11	A Yes.
12	Q And if I understand correctly this
13	would be a list of valsartan products, marketed and
14	sold in the United States that were not subject to
15	any recall at least as of September 2018, right?
16	A I believe so.
17	Q And you had mentioned earlier that
18	under the valsartan recalls, products were recalled
19	if they had NDMA content above 96 nanograms per
20	milliliter, right?
21	MR. NIGH: Objection. Go ahead.
22	Q You can answer.
23	A Ninety-six nanograms dosage you end up
24	consuming per day.
25	Q The limit for NDEA, there was a

	Page 166
1	separate limit for NDEA, right?
2	A I think NDEA was far lower, maybe 12
3	or 20, something like that.
4	Q Does 26.5 sound right?
5	A Yes.
6	Q And so if valsartan products were
7	tested and the limits observed were above those
8	levels of 96 nanograms for NDMA and 26.5 nanograms
9	for NDEA, they were recalled, is that your
10	understanding?
11	A That's my understanding.
12	Q And so this list would be a list of
13	products that had NDEA content of either zero or
14	less than 96 or somewhere in between?
15	A Right.
16	Q And these would be this list that
17	we will mark as Exhibit 29 is a list of product that
18	would have been tested and had NDEA content of
19	either zero or 26.5 or something in between.
20	A Right.
21	Q To your knowledge, have you
22	independently tested any of these
23	valsartan-containing medications that appear on this
24	Exhibit 29?
25	A I have not. I'm not prepared in this

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Page 167 meeting to to take a look at these and compare it 1 2. with what we have or have not listed, because I'm 3 just -- I don't have the documentations in front of me to tell you what got tested and what didn't. 4 5 Okay, but based on what we know right now, all of the drug products listed on Exhibit 29 6 7 may very well have had some NDMA or NDEA in the product, it was simply below the limit established 8 9 by FDA? 10 Α That's what FDA has obviously done. 11 They have made those determinations based on this 12 interim level, interim level which is 96 or 13 20-something nanograms of NDEA. 14 So as far as we know, every drug 0 15 listed on Exhibit 29 had some NDMA or NDEA in it, 16 right? As far as I can tell you, I have no 17 18 knowledge of what the exact numbers of NDMA or NDEA 19 is in any of these products. All I can attest to is 20 that they were not recalled by the FDA. 21

Q And so you cannot rule out the possibility that every drug listed on Exhibit 29 had some NDMA or NDEA?

A I cannot rule out. Let me just restate my position. I believe no NDMA or NDEA

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Page 168 1 should be allowed in any valsartan product, period. 2. So if they contain NDMA and NDEA and FDA is 3 allowing it above certain limit, that's FDA's prerogative, but in my expert opinion, no NDMA or 4 5 NDEA should be allowed. I am not a toxicologist, but I know something 6 7 about the chemistry of NDMA and the fact that it comes a methylating agent, and methylating agents are 8 9 a fantastic cancer causing agent. 10 MR. NIGH: Dr. Najafi, make sure you 11 let him finish his question before you answer. 12 THE WITNESS: My apologies. 13 0 The limits established by FDA that 14 vou've referenced --15 Α Right. 16 -- 96 nanograms per millimeter for NDMA, that limit remains in effect to this day, does 17 18 it not? 19 Object to form. MR. NIGH: 20 As far as I know, FDA currently is Α 21 accepting 96 nanograms as an interim sort of level, 2.2 but their goal is going to be zero and their goal is 23 going to be basically FDA -- I'm reading from FDA's

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quidance. It says FDA advises that nitrosamines

should be absent, not detectable for ARBs, API or

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ARB product period, stop. It's been cited in my FDA general advice document which is actually cited in my report.

Q All I asked you was that the limit of permissible NDMA content of 96 nanograms per milliliter remains in effect to this day.

A As far as I know, 96 nanograms remains in effect and is acceptable today, but may not be acceptable tomorrow.

Q And the 26.5 nanograms limit for NDEA remains in effect to this day?

A As far as I can tell, that remains as an interim acceptable level today but, again, their guidance says they are going to go to zero. So I am answering your question.

MR. TRISCHLER: All right. I have no further questions of the witness at this time. I do think that there are documents that we have requested that have been -- excuse me, documents that have been identified worked on by this witness that were identified during the course of this deposition that are relevant to the witness that have been disclosed in this case and that the witness has been offered.

I am going to reserve the right to

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bring a motion on that issue to obtain those documents and those records and to redepose the witness on those issues, but for now I don't have any further questions, although I believe there may be a few other people on my side that have some followup.

MR. NIGH: Mr. Trischler, I am going to put my position briefly. I think at this point we've gone over four hours of record time which is, in many of these questions, have been far outside of the scope. And the vast majority of documents, if there are any, we presented those objections 48 hours ago and do not believe there is a basis to come back for this deposition.

In addition, I'm surprised that it's even gone four hours, but it sounds like it's going to go even further and so I don't even know if there will be any time at the end of this. And to the extent that there is an argument being raised of missing documents, really, the timing here has just gone far longer than we think was necessary. That's my position.

## CROSS-EXAMINATION

BY MR. GISLESON:

Q Good afternoon, Doctor. My name is

Page 171 1 John Gisleson and I represent Aurobindo. 2. MR. GISLESON: If we could go back 3 please, Bill, and pull up Exhibit 17, which is the 4 valsartan USP monograph. 5 So, Doctor, in your career to what 6 extent have you utilized USP monographs in your 7 work? 8 Α We use it almost every day, every week 9 at Emery Pharma to effectively follow, you know, and 10 release drug product and drug substance at Emery. 11 To your knowledge are the USP 12 monographs utilized in connection with 13 manufacturing? 14 USP monographs are utilized in 15 connection with manufacturing, yes. 16 Do you know whether the FDA relies at 17 all on USP monographs? 18 To some extent they do. FDA and USP Α 19 have sort of a tangential relationship with the USP. 20 USP is an independent company and it was formed 200 21 years ago for the purpose of, essentially, 2.2 standardizing our drug supplies and trying to 23 develop a standardized quality system for the drug 24 on the market. 25 0 Do you have an understanding as to how

Page 172 1 FDA utilizes USP monographs? 2. Α Can you be specific? You know, what 3 do you mean by to what extent FDA utilizes? Do you have an understanding as to how 4 0 5 FDA utilizes USP monographs? 6 MR. NIGH: Objection. Form. 7 Α USP primarily works with the sponsor of the innovators to get the -- you know, basically 8 9 to get the drug, the generic drugs, you know, 10 effectively easing the generic drug availability. 11 So, for example USP toward the end of the drug 12 patent, USP contacts the brand and says "share with 13 me your protocol. Share with me your standard. 14 Share with me your impurities, " and the drug -- the 15 brand usually does that. If they don't do it, USP 16 develops its own standards and then everybody has to 17 meet that minimum standard. 18 In your experience, are the USP 0 standards reliable for manufacturers? 19 20 MR. NIGH: Form objection. 21 Α Could you repeat your question? 2.2 Sure. In your experience, are USP 0 23 monographs accurate in their prescription of the 24 drug products addressed in the monographs? 2.5 Form objection. MR. NIGH:

Page 173 1 In terms of reliability, it's a 2. minimum standard that you have to meet, but we often 3 go above and beyond USP. And in your experience, are the USP 4 0 5 monographs reliable in terms of the accuracy of the information that they contain? 6 7 MR. NIGH: Objection. In my experience, USP monograph is the 8 Α 9 starting point for, you know, for basically looking 10 at the impurity profile. 11 And if we look at Exhibit 17, does 12 this identify specific impurities that have been 13 found in the valsartan product? 14 They do. Α 15 0 What are the specific impurities that 16 are identified there? 17 There are a couple of impurities Α 18 listed; impurity A, impurity B, but in fact there 19 are more impurities. 20 Do you have an understanding why, 21 then, the USP monograph didn't identify all 2.2 impurities? 23 MR. NIGH: Form objection. 24 Α We often find other impurities and we bring it to the attention of the sponsor and show 2.5

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them that these impurities need to be identified or if the levels are -- meet certain standards, they need to be identified or they need to be, you know, purified, tested, quantified. Really, there are different standards, but no, USP -- how can I say it, it's really just -- it's really an entry point, you know. It's really a starting point. It's a guidance.

- Q In your experience are USP monographs updated from time to time?
  - A I believe they are.
- Q In your experience, when USP monographs are updated, would they also include additional impurities that weren't previously known?

A They often do, but they are very slow in doing that. A company such as ours would actually need to contact USP and say, hey, we actually found additional impurities, you know, you should list that and it might take them a couple of years to bring that up and do their own testing and corroborate and all of that and then it might get into that, you know it might get into sort of USP monograph.

Q And in your experience it's good practice when new impurities are identified to

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report those impurities to the FDA; is that right?

Α Absolutely. Reporting them to USP is a good practice. If it's a genotoxic compound, I think you want to make an more urgent case reporting it to the manufacturer, reporting it to the USP, reporting it to the FDA in the case of, for example, sartans or ranitidine, Zantac and others.

Does the -- and we'll look at 0 Exhibit 17 specifically. Does this USP monograph identify how to test for impurities?

This USP monograph does provide you with a basic methodology to identify some of the impurities.

What is the methodology that's 0 identified on this USP monograph?

Thank on hang on a second. There is -- to identify impurities you have to go through set up either HPLC or gas chromatography, various instrumentation and set it up, set up the instrument and run it according to the basic principle that USP lays down.

What are the specific tests or tests that are identified in this USP monograph for testing for the presence of impurities?

> So they use -- basically to assess Α

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impurity profile, they are using chromatographic technique. Chromatographic technique means -- meaning in this case high pressure liquid chromatography and that's it.

Q If we look under the impurities section on this first page, there's a reference to chromatographic system, see chromatography 621 system suitability and then it has mode LC detector UV 230 NM.

So what is the information that provides to a manufacturer as to how to test for an impurity?

You're getting fairly technical here. I don't know whether this is useful for this conversation, but the HPLC is an instrument that there are pumps attached to it. The pumps are pushing. There are two pumps pushing some vents into a column. There's solvent A, solvent B, and depending on what's in the solvent A and B, the column gets conditioned so that the column is a stationery phase. And so the separation happens through the HPLC column and then it goes through a detector and then that detector would be, you know, UV detector. It could be, you know, CHAD detector which stands for charge aerosol detector. It could be ELT detector. It could be a mass spec detector.

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So it goes through the detector and comes out and out of that detector. So any UV active compound gets detected. So in this case they are looking at for UV active compound.

- Q How much -- I'm sorry. Continue. Are nitrosamines UV active compounds?
- A Nitrosamines are not UV active compounds. So they become invisible, so UV.
- Q Using the chromatographic system with liquid chromatography and a UV detector, in your experience is that capable of identifying nitrosamines?
- A In my experience you have detectors are not capable of detecting nitrosamines.
- Q Does this USP monograph identify that a manufacturer should use gas chromatography, mass spectormetry to test for the presence of nitrosamine impurities?
  - MR. NIGH: Form objection.
- A So this specific monograph does not provide you with the, you know, HPLC mass spec detector detection.
- However, you know, the chemist and the synthetic chemist who is involved with the synthesis of the drug should consider, you know, methods that

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do not -- that can potentially show the none UV active compound such as nitrosamine and use of mass spec. For example, HPLC connected to a mass spec or GC connected to a mass spec, that's been around since I was an undergraduate in 1979.

How many to your knowledge -- strike that.

What drugs prior to June 2018 were found to contain nitrosamine impurities?

MR. NIGH: Form objection.

To my knowledge, you know, the drugs Δ that contained nitrosamine impurities, perhaps not known to me. That doesn't mean that it exists, but nitrosamines have been around since 1970s and knowledge of NDMA has been around since 1970s and WHO has been warning drug companies to look for NDMA through various guidances regarding nitrosamine.

And ICH M7 guidelines specifically mentions nitrosamine as the drug of concern as they have -- as the impurities of concerns as a mutagen of concerns. So just because they haven't been shown before 2018 doesn't, you know, basically give these guys a pass.

You said that you were familiar with current good manufacturing practices. Are you aware of any current good manufacturing practice that

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existed in or before June 2018 that required a manufacturer to test for nitrosamine impurities in pharmaceutical products?

A In current and good manufacturing practices really refers to using the latest technology and in looking for impurities, making sure your drug is safe.

And this is exactly to the point I was trying to make earlier, that basically the USP monograph is really just opens the door to you. So this is a common mistake and I also mention that in my presentation to this symposium that I was presenting regarding which is online, actually. You know, companies need to be looking for structures of concern which is mentioned in ICH M7, and those structures of concern should actually give you sort of a window toward compounds you should be looking for.

Q Can you identify any publication that was issued before June 2018 that advised pharmaceutical manufacturers that testing for nitrosamines was part of current good manufacturing practices?

MR. NIGH: Form objection.

A I can refer you to international

Page 180 1 committee to -- IRAC. It's a part of WHO that 2. specifically warns the manufacturers to look for 3 nitrosamines and there is a specific test that they ask a lot of manufacturers to do which is called --4 5 basically it's called NAP testing, N-A-P testing, 6 which in fact they encourage manufacturers to test their compounds to see if it's prone to developing 7 nitrosamine. And you can look that up under NAP 8 9 testing or basically WHO testing for nitrosamine 10 and -- nitrosamine and NDMA. 11 Just one second. I actually have somebody 12 I have to give them the key to my car. MR. NIGH: Let's take a quick break. 13 14 MR. GISLESON: Okav. 15 THE VIDEOGRAPHER: Time is 3:18. We 16 are going off the video record. 17 (A recess was taken.) 18 (After the recess the following 19 occurred:) 20 THE VIDEOGRAPHER: The time is 3:18. 21 We are back on the video record. 2.2 BY MR. GISLESON: 23 Did the FDA ever issue any guidance 0 24 like what you have just described from that international organization? 2.5

	Page 181
1	A Has FDA ever issued any guidance
2	regarding NDMA or nitrosamine?
3	Q Similar to the international guidance
4	you just identified.
5	A Post 2018 or pre 2018?
6	Q Pre 2018.
7	A I don't know, honestly.
8	Q You received an envelope and I think
9	you started to open it earlier that contained some
10	documents that we sent to you.
11	A Right.
12	MR. GISLESON: Bill, it's the document
13	behind Tab 6. It's a USP monograph, this one for
14	valsartan and
15	THE WITNESS: Should I open it?
16	MR. GISLESON: Please.
17	THE VIDEOGRAPHER: For the record, it
18	would be marked as Exhibit 30.
19	Q Doctor, it's behind Tab 6.
20	MR. NIGH: Mr. Gisleson, how am I
21	getting a copy of this document?
22	MR. GISLESON: It's in the Exhibit
23	File Share, Paul.
24	MR. NIGH: Okay. Okay. Tab 6. I see
25	it now.

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1	Q Have you, Doctor, reviewed the USP
2	monographs for all the different valsartan products
3	that are at issue in this lawsuit?
4	A I have reviewed a number of them, yes.
5	Q And have you also reviewed the USP
6	monograph for the valsartan hydrochlorothiazide
7	tablets?
8	A Yes, I believe so.
9	Q Looking at Exhibit 30, is it correct
10	that you have reviewed this USP monograph
11	previously?
12	A This is
13	Q Tab 6.
14	A Tab 6? Okay. Okay. I need a
15	refresher. Just give me a second.
16	Q No problem.
17	A Okay. I scanned through it. Go ahead
18	with your question.
19	Q So this USP monograph became effective
20	as of May 1, 2015; is that right?
21	A Okay.
22	Q Looking at the upper left-hand corner
23	of the first page.
24	A Uh-huh.
25	Q Is that correct?

Page 183 1 Yes, May 2015. Α 2. 0 And then if you can go to the section, 3 please, on impurities which I believe is the third or actually the fifth page. 4 5 Okay. Yes. I'm on it. 6 0 Thank you. Does this identify 7 specific impurities that had been identified in the valsartan and hydrochlorothiazide tablets? 8 9 Α It looks like it, yeah. 10 And what were the specific impurities 0 11 that were identified? 12 There is hydrochlorothiazide, 13 benzothiadiazine related compound A. There's 14 hydrochlorothiazide RS; there's USP valsartan RS; 15 there's USP valsartan related compound and so forth. 16 To your knowledge are there any health 17 effects or health hazard associated with those 18 impurities? 19 MR. NIGH: Form objection. 20 Α I don't know. 21 Then this also shows that there are 2.2 acceptance criteria for those impurities that allow 23 them to be present in the finished drug product at 24 certainly no more than percentages; is that correct? 2.5 Α Right.

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1	Q When it says in here that NMT
2	0.2 percent of any other impurity excluding
3	valsartan-related compound A, does that include
4	unidentified impurities?
5	MR. NIGH: Form objection.
6	Q Let me rephrase the question. Do you
7	have an understanding of what's meant by not more
8	than 0.2 percent of any other impurity?
9	A Yes.
LO	Q What does that mean?
L1	A So it means there are other
L2	unidentified impurities potentially that should not
L3	be more than .2 percent, not more than .2 percent in
L4	the chromatogram.
L5	Q Does this monograph identified the
L6	testing procedure that a manufacturer should use to
L7	identify any impurities for this
L8	valsartan-containing drug?
L9	A So, basically, again, it goes back to
20	this question the whole concept that I tried to
21	explain with Clem. There are impurities that you
22	could have up to maybe a hundred different
23	impurities, John, in valsartan in this chromatogram,
24	hundred little peaks, right?
25	You can't identify. You can't tell which one

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is which. You just go after picking up a few of them, you know, and USP effectively provides those impurities as reference standards and so forth, but it's really the duty of the manufacturer to look at the drug synthesis and identify and look for their structural entities of concern.

You know, for example, when I look at a molecule, John, when I look at c double bond o, c carbon and chlorine, I know this chloromethyl ketone is like a tear gas. It's going to burn your eyes.

If I see a molecule that has nitrite in it, I'm going to say "Oh, shit. This is going to --" pardon my language -- "this is going to be created nitrosamine."

So when you look at these types of -- you know, this is like the recipe that USP gives you is more or less like a TikTok video cookbook. Have you seen these TikTok videos that give you direction on how to make, you know, a certain dish? This is a TikTok video. So what you need to do is you need to do your own due diligence. You can talk to any chemist. At my company or at any other company, they tell you this is just an entry level stuff.

So it's the duty of the organic chemist at the company, synthetic organic chemist to say there are

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structural concerns in my recipe and I am worried about this impurity; therefore, look into it, okay. So, this is very little and you cannot just say here is TikTok video, you know, are you going to be able to do this. You can't. And in fact every -- this is just a starting point.

Q So when this refers to acceptance criteria no more than 0.2 percent of any other impurity, the manufacturer is to add up the different unidentified impurities to determine whether the total amount exceeds 0.2 percent?

A It means you could have lots of little impurities as long as they are not over a certain level, as long as they are not over .2 or .1 percent, but you also need to consider if these impurities are growing or not as a function of time.

Often we get a call from a frantic manufacturer that says my drug is on the market and we have -- we got report from our retained testing that our drug is producing an impurity and we need to figure out what that impurity is, and they tell us drop everything, work on this, figure out what this impurity is, you know, and we've been doing -- we have done this.

So this is -- just to show me a few impurities

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Page 187 1 here, I can assure you if you look at some of the 2. chromatograms of valsartan or this, the one that 3 you're showing me, there are going to be many, many, many different impurities in the chromatogram. 4 5 What is the testing method in this monograph that a manufacturer should use to 6 7 determine whether there are any impurities? 8 Α They need to follow current good 9 manufacturing practices and the current, you know 10 has -- you know, it means you gotta LCMS. 11 alone, it is a 1960's technology and unfortunately 12 FDA has been very lax about it and we've had discussions with them. And companies are saying we 13 14 can't afford LCMS. Are you kidding me? 15 What is the testing method identified 16 in this specific monograph for how a manufacturer 17 should test for impurities? 18 The testing method they are Α 19 identifying is HPLC with UV detector. 20 Is that shown on the prior page? Q 21 Α Yeah. 2.2 Under chromatographic system? Q 23 Α Yes. 24 Can you go to the prior page, please? 0 Yeah, I am looking at it. Yeah. 25 Α

Page 188 1 UV. 0 And it says chromatographic system? 3 Α Yes. 4 0 See chromatography 621 system 5 suitability mode LC detector UV. You see the detector is UV, which 6 7 means it's ultra violet detector. So in my opinion, USP is not following CGMP. USP is behind time and 8 9 these companies are hiding behind USP and I think 10 they are violating FDA's current good manufacturing 11 practices. And I have mentioned this to, you know, 12 drug manufacturers, the generic people as well and 13 they agree. I've had conversations with many of 14 them. 15 0 The test that's identified here, the 16 chromatographic system using the LC mode with a UV 17 detector, that test is the starting point, you said, for what a manufacturer should do to test for 18 19 impurities? 20 Α Exactly. 21 And that test does not identify 2.2 nitrosamine impurities, does it? 2.3 No, it doesn't. You could have a lot Α 2.4 of nitrosamine in this compound and this LC test will not show it. It will be invisible. 2.5

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Q So it's your opinion, as you said, that none of the defendants' valsartan products should have contained any NDMA or any NDEA; is it correct that you believe FDA is wrong in permitting the defendants' valsartan products to be sold so long as they are -- they have less than 96 nanograms of NDMA or 26.5 nanograms of NDEA?

MR. NIGH: Form objection.

A John, I cannot comment for FDA, but I have stated this in our previous conversations as well. I believe the levels of NDMA and NDEA should be zero. These are mutagenic DNA reactive molecules that knocks the hell out of your DNA, and in fact the NDMA is used to create cancer in laboratory animals.

Q So your opinion, then, directly contradicts the FDA's determination that patients may use the defendants valsartan products so long as they contain less than either 96 nanograms of NDMA or 26.5 nanograms of NDEA, correct?

MR. NIGH: Form objection.

A I'm going to reiterate what I said,

John. I believe in zero NDMA and NDEA. I think

FDA's thinking is also zero NDMA, NDEA. In my

opinion, perhaps maybe it's because it's political,

Page 190 1 I don't know, but you're asking my opinion. I 2. cannot speak on behalf of FDA. I told you what I 3 think. All right. Your opinion contradicts 4 0 5 the FDA's determination that these valsartan 6 products can be sold to and consumed by patients so 7 long as the nitrosamine levels are less than the accepted intake levels identified by the FDA, 8 9 correct? 10 MR. NIGH: Form objection. Hold on. 11 Form objection. Mischaracterizes testimony. It's 12 been asked and answered multiple times. 13 MR. GISLESON: It's been asked. Tt. 14 hasn't been answered. 15 MR. NIGH: It has been answered. It's 16 just not the way you want it answered. 17 Your opinion directly contradicts what Q 18 the FDA has said; namely, the defendant's products 19 can be sold to and consumed by patients so long as 20 the nitrosamine levels are less than the FDA's 21 determined acceptable intake levels or limits? 2.2 Α So --23 MR. NIGH: Form objection. Asked and 24 answered. Mischaracterizes testimony. John, I have already mentioned what's Α 2.5

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my opinion. I have also and FDA has also made its ruling. FDA is saying 96 nanograms is the interim level, but FDA in their most recent filing which is -- I'd like to quote you my -- the FDA guidance which is called FDA general advice and I'd like to actually make -- put that as part of the record if you could -- I don't know. It's page 1 and it's paragraph number -- it's page 1, paragraph 2 of background. I'd like to make that as part of the record and I'd like to read it that to you.

It says, "Due to their known potent carcinogenic effect and because it is feasible to limit these impurities," because it's feasible to limit these impurities "by taking reasonable steps," meaning chemical synthesis, chemical synthetic steps "to prevent or eliminate their presence, FDA has determined that there is no acceptable specification for nitrosamine in ARBs, API or drug product." Period. Full stop.

This is FDA. If you want to misquote me, you can go ahead and do that but, please, when you do, make sure you put this next to it. Therefore, FDA goes on and says, "FDA advises that nitrosamines should be absent in practices; i.e. not detectable as described below from ARB API and API brought

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Page 192 1 product," should be absent. 2. This is the key thing. As an initial measure, 3 FDA published levels of impurity exceeding these interim levels recommended for recall before the 4 5 market. So they said they recommended anything above certain level to be recalled, but their goal is zero. 6 7 I hope I've answered the question. Doctor, what's the date of the 8 9 document you just read from? 10 The date of this document? Let me Α 11 It's part of the submission of the -- I look it up. 12 don't know. I think that's for you guys to figure 13 This was -- there is no date on it. 14 Can you show us the first page of the 0 15 document, please, on the camera so we can see what 16 It looks like it's a letter from the it savs? 17 Department of Health and Services. 18 Is this part of the record? I think Α that was submitted. 19 20 No, because I didn't offer it and I've 21 never seen it before. 2.2 Α It was part of my testimony. It's 23 there. 24 0 Even with the presence of NDMA or

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NDEA, do the defendant's valsartan products still

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lower blood pressure in adults and children who still use the products?

MR. NIGH: Form objection.

A John, you want my honest opinion? I don't know. I don't know, because there is no doubt -- I have no doubt that there is valsartan molecule there, but I have no idea what the interaction of NDMA, NDEA at those high levels could be, because I consider NDMA and NDEA as an active compound.

A lot of the impurities that you saw in the USP monogram, a lot of the excipients: The sugar, the magnesium citrate and various just binding agent that makes them feel inactive, nitrosamines are extremely active and so I don't know whether actually they will help or hurt or they will cause certain -- you know, bind something to some receptors.

I'm not a toxicologist. I'm not a physician to know, but that's for another expert to comment.

Q Have you done any analysis as part of your work in this case to determine whether NDMA or NDEA interferes with the chemical ability of valsartan to perform its intended purpose of lowering blood pressure and of reducing hospitalization for heart failure?

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We have not done any testing that shows that in DNA inhibits the effectiveness of valsartan or promotes its effectiveness of valsartan or any of that. We have not done any of those tests.

And you also didn't do that testing for NDEA to determine whether it had such an effect, correct?

Α We have not done any testing to show whether NDEA promotes the pharmaco dynamics of the drug or actually inhibits the pharmaco dynamics of the drug. You could actually increase the activity of the valsartan or reduce its activity, any of those things. I don't know. We haven't done any testing. Nobody has asked us. Plaintiffs' lawyers have not asked us to do any of that.

Nor have you used your knowledge and Q experience simply to analyze without testing whether NDMA or NDEA interferes with the ability of valsartan to function as intended according to the label?

We have not done any of those testings Α and it's not part of our plan to do any of those testings.

> Q Are you familiar with the phrase

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		Page 195
1	compendial sta	andards?
2	А	Yes, I am.
3	Q	To what does that refer?
4	A	Compendial standards are standards,
5	basically offi	icial quality standards used for drugs
6	sold and refer	rence standards.
7	Q	Are those the standards in the USP
8	monographs?	
9	A	Yes.
10	Q	You said that you've been involved
11	with the prepa	aration and submission of ANDAs,
12	A-N-D-A-S; is	that correct?
13	A	Mm-hmm.
14	Q	Yes?
15	A	Yes.
16	Q	Have you ever created a connection
17	with a ANDA ri	isk assessment?
18	A	Have I created a risk assessment
19	document?	
20	Q	Yes.
21	A	We've done many risk assessments in
22	connection wit	th and ANDA, in connection with NDA,
23	new drug appli	ication; we have developed a risk
24	assessment for	any of our release testing. We do
25	this on routir	ne basis.

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Q In your experience do risk assessments that are submitted in connection with an ANDA to the FDA address the presence of impurities?

A Sometimes. Sometimes they do, sometimes they don't. It really depends on how good at CMC a person a company has and how good a chemist they have and how they can -- if they, for example, you have a drug that all of a sudden develops odor, you know, sitting and it's causing odor or the drug is changing, you've got to do risk assessment and you need to submit it to the FDA.

And those risk assessments also, I would call them a root cause analysis. They would need to go to -- they could be very narrow. They could be very extensive. It really depends on the company and it depends on the team that's involved.

Q In your experience, does the drug manufacturer identify the tests that the manufacturer performed to evaluate risks associated with the drug product at issue in the ANDA?

A Could you repeat your question? I kind of lost my train of thought.

Q Sure. Does the drug manufacturer have to identify in the risk assessment the specific tests it performed in developing the assessment?

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A Yeah. They should. They should. For example, at any time you change the chemical process, you change your synthetic route, any time you change the cap of -- let's say you go from glass to plastic, you need to do risk assessment; how is that going to impact your drug.

You go from, you know, a prefilled syringe to another prefilled syringe, you need to do risk assessment. In this case, you know, we're getting into the really nitty gritty of sort of liability issues, Daniel but, you know, in this case they should have -- they changed the chemical process. They should have done what I call the structural sort of drugs, they should look at the structural concerned molecule and they should look at those structural concerns and say what are the chances of something going wrong with this and then do a proper risk analysis and not just brush it under the table or say this is just minor thing and go on with it.

You know, using, for example, John, sodium nitrite, in the original process they didn't use sodium nitrite, whereas in the, you know, in the defendant's process almost invariably everybody used sodium nitrite. Sodium nitrate is the same molecule that you find in a lot of, you know -- it's a

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nitrated food; you know. You get potential formation of NDMA. That's where nitrosamine comes from, and sodium nitrite are known to cause nitrosamine and NDMA. So that's where the risk analysis went wrong.

MR. NIGH: I need to interject something at this time. As you can see, there is a seven page declaration. He has not gone into detail in terms of his liability opinions and I would warn counsel at this point if we are going into liability opinions, we're not going to cover this ground again. There's not going to be a second bite of the apple at those topics.

MR. GISLESON: I am not going into liability issues at all. I am specifically addressing his point he's made a couple of times, that in his view the defendants didn't do what they should have done in connection with evaluating or testing for NDMA and NDEA, and so I'm following up on that.

MR. NIGH: Yeah. That's in large part because of the questions that occurred earlier that also touched upon liability. So to the extent we are going to continue further and follow up on liability, defense counsel could do so at their own closing.

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And as you are aware, MR. TRISCHLER: the witness just went well beyond the scope of my question to volunteer a bunch of information, which is why I am also following up on it.

The bottom line, in your experience the ability to instruct the manufacturer to perform additional tests if the FDA believes the risk assessment did not appropriately evaluate certain risks; is that true?

MR. NIGH: Again, this is clearly The more you want to follow down that liability. tunnel, the more you are following up on liability opinions. This is far outside the scope of his declaration.

> Α Let's talk about NDMA levels, John.

Just because he voluntarily MR. NTGH: gives information in response to one of your questions that's also a liability question and continue to go down that tunnel doesn't mean that defense counsel is not opening the door to this questioning, and they are not going to get a second bite at the apple.

BY MR. GISLESON:

The FDA can direct additional tests if 0 it believes it appropriate when it evaluates a risk

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	Page 200
1	assessment in an ANDA, correct?
2	MR. NIGH: Form objection.
3	A The FDA can ask for additional tests
4	if they determine it's necessary. By and large they
5	rely on the manufacturer's own risk assessment and
6	whether the manufacturer considers that a low risk,
7	medium risk, high risk.
8	So if the manufacturer says this is low risk
9	and CMC reviewer at the FDA reviews it and if they
10	also miss it, you know, so, John, it's really a
11	question of they miss it, these guys miss it, yeah,
12	but at the end of the day it's the manufacturer's
13	responsibility.
14	Q You testified that in your view, the
15	defendant's product shouldn't contain any NDMA or
16	NDEA. Are you aware that nitrosamines have been
17	found in cosmetics?
18	A Yes, I have been aware.
19	Q Are you wear that nitrosamines have
20	been found in tobacco and cigarette smoke?
21	A Yes.
22	Q Are you aware that nitrosamines have
23	been found in drinking water?
24	A Yes, I am aware of that.
25	Q Are you aware that people consume

	Page 201
1	processed foods that include nitrosamines?
2	A Yes, I am aware of that.
3	Q Including bacon, sausage and ham?
4	A Yes, I am aware.
5	Q Are you aware that beer can contain
6	nitrosamines?
7	A John, we have to qualify and put me on
8	record as saying the levels of nitrosamines are
9	extremely low in many of these instances. For
10	example, do you know this minimum level that's
11	acceptable to have nitrosamine in water?
12	Q It's a low level, but it exists,
13	correct?
14	A It's extremely low level. So
15	nitrosamine, every time you eat bacon, you may get a
16	little bit of nitrosamine. Your body has the
17	ability to detoxify so much. I don't want to get
18	outside of my area but, you know, low levels of
19	nitrosamine and high levels are different stories.
20	Q Those are the questions I have. Thank
21	you for your time.
22	A Thank you.
23	CROSS-EXAMINATION
24	BY MR. HARKINS:
25	Q Good evening, Dr. Najafi. Can you

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		Page 202
1	hear me okay?	
2	A	Yes.
3	Q	My name is Steven Harkins. I represent
4	the Teva defer	dants and I just have a few followup
5	questions for	you here.
6	You men	tioned a few guidances today both for
7	unidentified i	mpurities and then for genotoxic
8	impurities. D	oo you recall that?
9	A	Yes.
10	Q	Are you aware of ICH, Q3A and Q3B?
11	A	Yes, I am.
12	Q	And those provides guidance on the
13	levels at whic	th any impurity needs to be assessed to
14	the extent it'	s not in a drug substance, right?
15	A	That's correct.
16	Q	Are you comfortable with the term
17	qualification	threshold?
18	A	Yes.
19	Q	And the qualification threshold in
20	ICH, Q3A and Q	3B defines the level at which any
21	impurity; harm	aless, hazardous, needs to be assessed
22	and then analy	zed, right?
23	A	Mm-hmm.
24	Q	And unknown impurities that don't meet
25	that threshold	strictly under Q3A and Q3B don't get

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assessed further --

MR. NIGH: Form objection.

0 -- is that correct?

A No, that's not correct. Again, it goes back to -- I didn't catch. You're Steven.

Steven, it goes back to looking at the structure -- you know, the changes you're making; looking at the structures that are involved in the chemistry, and you need to anticipate these impurities.

If you are anticipating certain genotoxic impurities, you need to test for it. It could be extremely low levels that doesn't meet the ICH guidelines you are referring to. That's where you end up going to ICH M7. ICH M7 take effect here where they talk about extremely low levels of genotoxic compound. They talk about testing those genotoxic compounds in aims test and various tests and they set limits. And it also -- it's a matter of how -- whether you have an episodic drug or a chronic drug.

For example valsartan, my mom was taking valsartan for ten years. Now she is taking, you know, lisinopril for the last few years. So, you know, it really depends. Once the drug becomes a drug -- I call it life styling drug, then your

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exposure time -- so you need to consider all of that. And it goes back to the fact that you need to anticipate this impurity and then look for them.

Otherwise, you know, you're chromatogram -- you have this valsartan compound is like a huge peak and then there are lots of little peaks and they don't test for it because they are actually below the levels of .1 percent, .2 percent. So they don't test for it and it doesn't require it.

Q Doctor, I promise we will get to where you want to go, but I was just asking specifically under Q3A and Q3B, not subsequent guidelines which we will address in just a minute. If the qualification threshold for an unidentified impurity is not met, then testing further on those unknown impurities is not conducted pursuant to that guideline; is that right?

MR. NIGH: Form objection.

A This is correct with the qualification that I previously state. You need to anticipate based on structures of concern and then test some of those anticipated genotoxic compounds.

Q And you previously testified that the levels for testing of genotoxic or potential genotoxic impurities are far lower?

certain impurities.

	Page 205	
1	A Far lower, less than .1 part per	
2	million, less than 0.1 parts per million, in the	
3	case of nitrosamines, zero.	
4	Q And that guidance is at least	
5	generally laid out in ICH M7 which you laid out?	
6	A ICH M7.	
7	Q Roughly a thousand full difference	
8	between the levels you might be looking at there?	
9	A Yeah.	
10	Q You also testified and you just	
11	mentioned again there could be 100 little identified	
12	impurities, 100 little unidentified peaks if you ran	
13	it over, correct?	
14	A Yes.	
15	Q And even an HPLC test that you used	
16	that showed those peaks, that would not be	
17	identifying and quantifying each of those impurities	
18	just by running a single test with a single set of	
19	settings, right?	
20	A You might see 100 little impurities.	
21	Those are only UV ultraviolet active compounds. You	
22	could also have another 100 that are not ultraviolet	
23	active compounds. So now you see that's where, you	
24	know, that's where people in need to anticipate	

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Q And to actually assess or quantify any of those, maybe, hundreds of tiny little peaks, you would need specialized testing that was specifically tuned to the impurity that you were looking at and looking for?

A You need to have specialized equipment. That's where we go to CGMP, current good manufacturing practices, which really states that don't use a typewriter to type your letter. Use a computer to type your letter. You see, it's like these manufacturers are still using typewriters in the age of computer and word processor.

We have GCMS which is extremely easy to operate, extremely simple and it comes with a library of molecules stored in it, so all you have to do is just point your cursor to certain impurity and it tells you the molecular weight and it tells you several possible compounds that might be.

Q And you would -- I'm sorry. Are you finished?

A Yes.

Q So you would need a specialized test to identify, for example here, the NDMA or NDEA compound among all of those other little peaks you might see?

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A I wouldn't call it specialized instrument. These are routine instruments that almost every lab, every university, every company has including, in fact I would hesitate to guess that your clients -- you're representing Teva, right?

O I am.

A I know for a fact that Teva has probably dozens and dozens of GCMS and LCMS at their facility.

Q And simply running those tests over a drug substance without having them specifically set to the impurity that you are attempting to identify would not allow you to identify and quantify that impurity, correct?

A Repeat your question? I missed it.

Q Running an HPLC or any other test method over an impurity without having that machine specifically set to identify and quantify an impurity that you are trying to identify like in DNA or NDEA would not allow you to identify and quantify that impurity is that correct?

A Running an HPLC would not help you with those impurities that's correct.

Q And, for example, specialized test

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Page 208 methods like the ones you used in your work for 1 Valisure later were published eventually that 3 allowed those specific settings to be employed to identify these impurities, correct? 4 5 MR. NIGH: Form objection. Steven, I would strike the word 6 Α 7 specialized equipment, because to someone trained in the art, specialized equipment means something that 8 9 only Lawrence Livermore laboratory has or some 10 cyclotron or something has. These are not 11 specialized equipment, but they need to be thinking 12 about and anticipating NDMA and NDEA and look at it, 13 that's all. 14 You're familiar with the testing 0 15 methods that were published by the FDA in connection 16 with nitrosamine recalls? 17 Yes, I am. Α 18 Are you aware of those methods having 0 19 been published anywhere else before they were 20 published by the FDA in connection with the recalls 21 in 2018? 2.2 MR. NIGH: Form objection. 23 I am not aware, but the methods -- you Α 2.4 know, don't need a method. You develop your 25 There are hundreds of methods for testing methods.

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NDMA if you search the literature. There is a method as early as 1970 for certain testing for NDMA; very validated, very good method.

Doctor, imagine my question was 0 specifically with regard to methods for identifying NDMA and NDEA which were published by the FDA in 2018 with respect to the nitrosamine issue. You're familiar with those?

> Α Yes, I am.

And just to clarify, you're not aware 0 of those methods having been published anywhere before that, are you?

MR. NIGH: Form objection.

I am not aware of FDA publishing Α method for NDMA. FDA doesn't publish methods to They get involved and, you test a lot of drugs. know, basically somebody when basically something bad happens. A lot of methods that are developed, are developed by industry such as companies like us. We develop the method, we validate the method and then we submit it as part of a CMC package for NDA filing or ANDA filing to the FDA and those methods go into the system.

FDA doesn't really get involved in developing And then ultimately USP gets ahold of those testing.

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Page 210 1 methods and puts it into their, you know, monograph. 2. Doctor, you had never seen those 3 methods published anywhere else before 2018, 4 correct? 5 MR. NIGH: Form objection. 6 Α I did not see FDA publishing those 7 methods. I am not aware. There might be -- there might have been issued something before. I am not 8 9 aware, but there are other methods that you can go 10 to besides FDA for nitrosamine analysis. 11 Specifically those methods and I know 12 with respect to FDA you are not aware of anyone else 13 publishing those mods before 2018 are you? 14 There are some methods outside of FDA. Α 15 Dr. Najafi, my question is specific to 0 16 those methods, just those methods for identified 17 NDMA and NDEA. You have not seen them anywhere else 18 FDA or otherwise before 2018, right? 19 Form objection. MR. NIGH: 20 I answered the question already. Α 21 I believe you did, but can you please just answer it for me so we have a clear record? 2.2 You hadn't seen those before 2018? 23 2.4 Α I have not seen FDA publishing any methods before prior to 2018, but I may have missed 25

Page 211 1 it, but there are other methods on NDMA by other --2. by admissions, by industry by other people and there 3 are multiple methods for NDEA analysis. Dr. Najafi, I am not asking about 4 5 other methods. I am not asking about something that 6 you haven't seen. I am asking you, Dr. Ron Najafi, 7 had never seen any of those methods published anywhere before 2018, correct? 8 9 MR. NIGH: Form objection. 10 Α Steven, I think you're trying to get your own, you know, question answered. You can go 11 12 ahead and answer it. 13 I am not trying to get -- you have 14 not, correct? 15 MR. NIGH: Form. 16 What would you like to hear? А 17 MR. NIGH: Form objection. 18 Whether you had seen those methods Q 19 published anywhere prior to 2018. 20 I mentioned --Α 21 MR. NIGH: Form objection. 2.2 Α -- I have not seen FDA publishing any 23 methods prior to 2018, but I may be wrong, you know. 24 It requires some diligence. There are many other methods that have been published for NDMA analysis 25

Page 212 1 by GCMS by other means that are in the literature. 0 Do you think you missed it or that you 3 are wrong? Next question, Steven. 4 Α 5 MR. NIGH: Well, hold on. Let me do 6 the objection. I am going to say it's asked and 7 I think we asked this question many times answered. and I will continue to warn that he doesn't have 8 9 anything in his declaration about testing methods 10 and this is really going down the liability path 11 even further. 12 I would just warn that to the extent 13 he discloses opinions that starts talking about 14 testing methods in the future, I think you all 15 covered this topic. 16 Dr. Najafi, there are other compounds 17 within the nitrosamine class, right? 18 Α Yes. 19 And the nitrosamine class is just one 20 class of potential genotoxic compounds that are 21 addressed by GCMS and other guidelines, correct? 2.2 Α Yes. 23 Do you know how many classes of 24 compounds or types of covered structure alerts there 25 are?

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Page 213 There are at least five different 1 Α 2. classes, four or five different classes of compounds 3 It's mentioned in the ICH guidelines. And there are other sources that 4 0 5 identify potential genotoxic compounds as well, 6 right? 7 Α Yes. And within each of those classes there 8 0 9 are numerous individual compounds, right? 10 Α Correct. 11 It's not your testimony that a drug 0 12 manufacturer is required to perform testing for 13 every type of potential genotoxic compound on every 14 drug substance, is it? 15 MR. NIGH: Form objection. 16 getting way into the liability. At this point I am 17 going to instruct him not to answer, because I think 18 it goes far outside the scope of his opinion. 19 Dr. Najafi, is it your opinion that 20 the reason that these drugs are not equivalent to 21 the reference listed drug is because of the presence 2.2 of these impurities NDMA and NDEA? 23 I believe the fact that they contain Α 24 these highly DNA active genotoxic impurities, it makes the drug not equivalent and not the same and I 25

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think it could have, you know, significant impact on the drug's performance.

And correct me if I'm misunderstanding, but I believe it's your testimony that someone looking at the underlying route of synthesis here should have identified the potential for this specific compound and conducted testing for it; is that right?

MR. NIGH: Objection. Scope.

I'm sorry. I didn't hear the answer. 0 Should I answer, Daniel? THE WITNESS:

MR. NIGH: Yeah, you can answer.

Α Someone should have anticipated. they changed the route of synthesis and given those structural concern the molecules of structural concern, they should have anticipated NDMA and they didn't.

Also, Steven, I want to just to answer your question on methods that are available, there is EPA methods for NDMA testing that goes well before 2018, well before. There are food testing, you know, testing using NDMA for food and they are all using GCMS.

0 I believe you testified actually that someone skilled in the art of chemistry, I think

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Page 215 that was your phrase, it would have been obvious to 1 look for this, right? 3 Α Right. FDA had access to information on the 4 0 5 valsartan synthesis for all the API manufacturers 6 prior to 2018, correct? 7 Α Yes, correct. 8 0 And just to confirm your testimony 9 that I believe you gave to Mr. Gisleson just a 10 moment ago, you're not aware of any statements from 11 the FDA prior to June 2018 to the manufacturers of 12 valsartan drug products that they should just test 13 their products for potential presence of nitrosamines, are you? 14 15 I am not aware of FDA stating that 16 they should be aware, but WHO has been on record for 17 stating to all manufacturers of drugs to watch for 18 If you have compounds of structures of 19 interest such as sodium nitrite, they need to look 20 for NDMA and just because FDA reviewer missed it 21 doesn't mean the manufacturer should say okay, FDA 2.2 by and large relies on the manufacturer. The FDA would have had the information 23 0 for the ZHP product, right? 24 25 Α Yes.

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		Page 216
1	Q	They would have had the information
2	for the Mylan	product?
3		MR. NIGH: Object to form. Outside
4	the scope.	
5	Q	I believe was that a "yes?"
6	А	I assume.
7	Q	Finally, I understand it's your
8	opinion that t	he level of NDMA or NDEA in the
9	product should	be zero, right?
10	A	That's correct.
11	Q	And it's your opinion that any product
12	containing NDM	A or NDEA at any level is not the
13	equivalent of	RLD and, therefore, be misbranded,
14	adulterated an	d should be recalled?
15		MR. NIGH: Form objection. Outside
16	the scope.	
17	А	That is my position.
18	Q	Do you recall being shown the Valisure
19	document which	indicated that Novartis' valsartan
20	product contai	ned NDMA earlier?
21	A	Yes, I did see that.
22	Q	Assuming that Valisure's data showing
23	levels of NDMA	in Novartis' valsartan drug product
24	is correct, it	's your opinion that that Novartis
25	drug product c	ontaining NDMA would be misbranded,

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adulterated and should be recalled?

A Assuming that Valisure's testing is correct, which I have no knowledge of whether that testing was correct and I also do not have any knowledge that Novartis is using their old synthesis and they may be using a generic drug manufacturer to make that drug product; assuming that data is correct, it's my opinion that the drug -- that NDMA should not be allowed to be sold; you know, the drug should not be allowed to be sold with NDMA.

However, FDA has allowed this interim number, so it hasn't been recalled.

Q But again -- and I understand your qualification, assuming that to be correct and I'm only asking it with regard to the products shown there that did, according to that information contain NDMA, it would be your opinion that that product should be recalled as misbranded and adulterated?

MR. NIGH: Objection. Outside the scope of his opinion.

A So assuming that misbranded, that definition is false and misleading statement, false and misleading statement, right, that's the definition of misbranded drug, and you have

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Page 218 carcinogenic impurities, then you have potentially toxic compound that, you know, people don't know about it and that is misleading to whoever is taking the drug. If I'm taking -- Steven, if I'm taking valsartan and I'm assuming this has zero NDMA in it, if I'm taking torovastatin, Lipitor, okay, I take it every day for, you know, lowering basically cholesterol and various things, I am assuming it's free of any NDMA. It has zero NDMA. And if that product, any product contained any level of NDMA, it would be your opinion that that product is misbranded, adulterated and should be recalled? I am just trying to understand. That is my position. That is what I believe the product is not -- it's not being -- we are misleading the public.

Q Thank you, Dr. Najafi. There is no further questions from me.

THE VIDEOGRAPHER: Any other questions from the room?

MR. TRISCHLER: Are there any other questions on behalf of defense counsel?

MR. GISLESON: Not at this time.

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Page 219 I would like to take 1 MR. NIGH: Okay. 2. a break. I'd like to come back in 15 minutes. 3 THE VIDEOGRAPHER: The time is 4:16. This ends Media Unit 5. 4 5 (A recess was taken.) 6 (After the recess the following 7 occurred:) THE VIDEOGRAPHER: The time is now 8 9 4:56. This begins Media 6. 10 CROSS-EXAMINATION 11 BY MR. NIGH: 12 Doctor, I'd like to show you a 13 document from Canada and I will represent to you 14 that this was a document that was disclosed as part 15 of your materials considered and given to the 16 defense counsel as well. Now you weren't asked 17 about any of the health Canada testing by any of the 18 defendants, correct? 19 That's correct. Α 20 I want to draw your attention to 21 page 9, if we can scroll down to page 9. Actually 2.2 let me go to the top first. Let me get to the top 23 here. Here you can see impurities found in certain 24 angiotensin two receptor blocker products also known 2.5 as sartans, correct?

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		Page 220
1	А	Correct.
2	Q	And you could see at the top you can
3	see the Canada	a flag and it says government of
4	Canada; do you	ı see that?
5	А	Absolutely. Yes.
6	Q	And you can also see the words "Health
7	Canada" there	is as well. Do you see that?
8	A	I see Health Canada, yes.
9	Q	Okay. Let's go down to page 9.
10		THE VIDEOGRAPHER: Counsel, while
11	she's jumping	to page 9, you didn't announce this is
12	going to be ma	arked as an exhibit.
13		MR. NIGH: It will be marked as an
14	exhibit.	
15		THE VIDEOGRAPHER: It will be the next
16	one in line.	
17		MR. NIGH: I don't know what we are
18	on, but I don	t think we are using anything that has
19	31, correct?	
20		THE VIDEOGRAPHER: Yes. We have not
21	marked 31 yet	
22		MR. NIGH: So I'll start at 31. This
23	will be marked	d as Exhibit 31.
24	BY MR. NIGH:	
25	Q	And Doctor, do you see where it says

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1	"Novartis Pharmaceuticals" and right next to it, it		
2	shows the word Diovan?		
3	A Yes, I do.		
4	Q And do you see the ones above that		
5	refer to valsartan Mylan valsartan, Mylan		
6	valsartan. Do you see that?		
7	A Yes, I do.		
8	Q Now your understanding is that Diovan		
9	is the name brand of valsartan, correct?		
10	A Yes, that's correct.		
11	MR. TRISCHLER: Dan, can I get a		
12	standing objection to leading or are you going to do		
13	it one time and just ask questions the way they are		
14	supposed to be asked?		
15	MR. NIGH: You know, if you want to		
16	object to leading, you can. If you want to object		
17	to form, you can.		
18	MR. TRISCHLER: I guess I will.		
19	Objection to form.		
20	BY MR. NIGH:		
21	Q So you see the name Diovan?		
22	A Yes, I do.		
23	Q Does that refer to name brand		
24	valsartan?		
25	A Yes, it does.		

		Page 222
1	1 Q And does Mylan valsa	rtan, does that
2	2 refer to generic?	
3	3 MR. TRISCHLER: Object	cting to the form
4	4 and foundation.	
5	Q And Doctor, what is t	the name brand of
6	6 valsartan called?	
7	7 A Diovan.	
8	8 Q Okay, and next to the	at, let's scroll
9	9 back up to the top of this page. I	Do you see the
10	10 column that shows NDMA result and r	nanogram per
11	11 tablet and NDEA result and nanogram	m per tablet?
12	12 A Yes, I do.	
13	Q Let's scroll down aga	ain to November
14	and if we can highlight where it sh	nows not detected.
15	A Right.	
16	Q Doctor, what does that	at refer to?
17	17 A That refers to no NDN	MA or NDEA was
18	18 detected for Diane.	
19	19 Q So Health Canada dete	ected no NDMA or
20	NDEA for their name brand Diovan?	
21	21 A Yes, that's correct.	
22	MR. NIGH: We can tal	ke this document
23	down. Let's pull up the valsartan	petition that was
24	used earlier. I don't actually see	e an exhibit
25	25 number in my box.	

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Page 223 1 That was the question I MS. HILTON: 2. have, if we actually gave this an exhibit number. 3 THE VIDEOGRAPHER: That was 28. 4 MR. TRISCHLER: I was going to say I 5 thought it was 28. Thank you. 6 BY MR. NIGH: 7 Doctor, my understanding is this 0 Valisure petition was marked 28. Do you recall 8 9 seeing this petition during your questions? 10 Α Yes, I do. 11 Okay. Let's scroll down to page 9. 0 12 Now, Dr. Najafi, I believe earlier you said you 13 don't believe Emery Pharma was not disclosed, its 14 name was not disclosed as a part of this report. 15 Α Yes. 16 What does that mean? 0 17 That means that we were not involved Α 18 in testing any of these drugs that were listed on 19 this petition. Typically if we do get some of these 20 tested and corroborate data, you know, Valisure 21 would have listed us and cited us as being involved 2.2 in testing. 23 Okay. And here you can see valsartan 0 24 in Novartis and you can see there are a couple of 2.5 these show no NDMA detected, correct?

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	Page 224		
1	A That's correct.		
2	Q Now, it doesn't say Diovan, correct?		
3	A That's correct. There is no reference		
4	to Diovan.		
5	Q It says valsartan, correct?		
6	A That's correct.		
7	Q So do you know if this is Novartis		
8	name brand medication or Novartis generic drug		
9	medication?		
10	A It could be name brand or generic,		
11	Novartis generic. I have no idea.		
12	Q Looking at this, you wouldn't be able		
13	to tell us?		
14	A No.		
15	Q Okay. And also this petition doesn't		
16	test for NDEA in any way in the Novartis pills,		
17	correct?		
18	A That's correct. It only tests for		
19	NDMA and NDMS.		
20	Q Doctor, let me ask you a couple		
21	questions about chemical equivalents. A drug with		
22	20,000 nanograms of NDMA would not be chemically		
23	equivalent or the same as a drug with 14 nanograms		
24	of NDMA, correct?		
25	MR. TRISCHLER: Objection to job.		

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	Page 225		
1	Q A drug with 10,000 nanograms of NDMA		
2	would not be chemically equivalent as a drug with		
3	14 nanograms of NDMA, correct?		
4	MR. TRISCHLER: Object to form.		
5	A No.		
6	Q A drug with 96 nanograms or more of		
7	NDMA would not be chemically equivalent as a drug		
8	with 14 nanograms of NDMA, correct?		
9	A That's correct.		
10	MR. TRISCHLER: Objection to form.		
11	Q All right. Let's take a look at the		
12	next document. Now, Doctor, do you recall defense		
13	counsel showing you some a document that included		
14	a few pages of what's on the USP website?		
15	A Yes, I do.		
16	Q Now the USP website includes a lot		
17	more information than what was given in that		
18	document, correct?		
19	A That's correct.		
20	Q And you weren't shown this information		
21	during defense counsel's questioning from the USP		
22	website, correct?		
23	A That's correct.		
24	Q Now, this is the pathway here we can		
25	see it's USP/our work/chemical medicines and the		

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1	title of this document is nitrosamine impurities,
2	correct?
3	A That's correct.
4	Q And we can stroll down to the bottom
5	of this page briefly and you can see the URL
6	address, correct?
7	A Yes. That's correct.
8	Q Let's go back up. Actually, I want to
9	direct your attention to this paragraph that says
LO	companies are responsible for understanding their
L1	manufacturing processes which includes identifying
L2	and preventing the presence of unacceptable
L3	impurities.
L <b>4</b>	This involves developing new predictive
L5	approaches along with using suitable methods to
L6	detect and control these impurities as well as others
L7	that may arise when making changes to manufacturing
L8	processes. Did I read that information correctly?
L9	A Yes, you have.
20	MR. TRISCHLER: Objection to form.
21	Q Now, Doctor, according to USP, who is
22	responsible for understanding their manufacturing
23	processes?
24	A Companies are responsible for
25	understanding their manufacturing processes, not USP

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and not FDA.

Q And those companies, that would be referring to companies that are manufacturing drugs, correct?

A Companies who are manufacturing drugs, in this instance the companies who are manufacturing ARBs.

Q Dr. Najafi, according to USP do they state that in order to detect unacceptable impurities that manufacturers can rely simply on outdated technologies and methods?

MR. TRISCHLER: Object to form.

Clear. You want to follow CGMP guideline and CGMP specifically talks about updated equipment, you know, the newest technology and in this instance GCMS or LCMS are not new technologies and basically just as it states, the method needs to be able to detect and control impurities as well as others that may arise when making changes to manufacturing processes, making changes to manufacturing processes. And the word "predictive" is the key where they say the companies need to have a predictive testify involved involving developing new predict testify approach to identifying, you know,

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Page 228 1 impurities such as nitrosamines, the cohorts of interest. MR. NIGH: You can take this document 3 down. 4 5 Doctor, do you recall when plaintiff 0 6 Harkins was asking you questions about whether drugs should be considered adulterated or misbranded? 7 Yes, I do. 8 Α 9 For the purposes of class 0 10 certification and the declaration that you have 11 offered, are you offering any opinions about whether 12 the defendants' valsartan containing drugs are 13 considered adulterated? 14 I am not offering any opinion. Α 15 For the purposes of class 0 16 certification and the declaration that you offered, 17 are you offering any opinions about whether the 18 defendants' valsartan-containing drugs are considered misbranded? 19 20 No, I'm not offering any opinion. Α 21 0 Okay. I don't have any further 2.2 questions. 23 THE VIDEOGRAPHER: Counsel, just real 24 quick you didn't announce it, but the nitrosamine impurities page we were just looking at, is that 25

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	Page 229
1	Exhibit 32?
2	MR. NIGH: Yes, Exhibit 32. Thank
3	you.
4	THE VIDEOGRAPHER: Excellent.
5	MR. TRISCHLER: Nothing from me, Dan,
6	subject to my prior reservations but I'm done.
7	MR. GISLESON: Nothing further from
8	Aurobindo.
9	MR HARKINS: Nothing from Teva.
10	MR. NIGH: Thank you, everybody.
11	Okay. Good night. Thank you.
12	THE VIDEOGRAPHER: The time is 5:08.
13	That concludes today's deposition.
14	(Deposition concluded 5:08 p.m.)
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CERTIFICATE

I, MICHELLE L. DAWKINS, a Notary Public and Court Reporter of the State of New Jersey, do hereby certify that prior to commencement of the examination, RON NAJAFI was duly sworn remotely by me to testify the truth, the whole truth and nothing but the truth.

I DO FURTHER CERTIFY that the foregoing is a true and accurate transcript of the testimony as taken stenographically by and before me at the time, place and on the date hereinbefore set forth.

I DO FURTHER CERTIFY that I am neither a relative nor employee nor attorney nor counsel of any of the parties to this action, and that I am neither a relative nor employee of such attorney or counsel, and that I am not financially interested in the action.

Michelle L. Wawking

MICHELLE L. DAWKINS, CCR, RPR
CCR License No. 30XI00224400

RPR ID No. 805591

Notary Public of New Jersey

Page 231 1 DANIEL NIGH, ESQ. 2 dnigh@levinlaw.com February 14, 2022 3 In Re: Valsartan, Losartan, Et Al 4 RE: 5 2/3/2022, Ron Najafi, PhD (#5066624) 6 The above-referenced transcript is available for 7 review. Within the applicable timeframe, the witness should 8 9 read the testimony to verify its accuracy. If there are 10 any changes, the witness should note those with the reason, on the attached Errata Sheet. 11 12 The witness should sign the Acknowledgment of 13 Deponent and Errata and return to the deposing attorney. 14 Copies should be sent to all counsel, and to Veritext at 15 erratas-cs@veritext.com 16 17 Return completed errata within 30 days from 18 receipt of testimony. 19 If the witness fails to do so within the time 20 allotted, the transcript may be used as if signed. 21 22 Yours, 2.3 Veritext Legal Solutions 24 25

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2	Ron Najafi, PhD (#5066624)
3	ACKNOWLEDGEMENT OF DEPONENT
4	I, Ron Najafi, PhD, do hereby declare that I
5	have read the foregoing transcript, I have made any
6	corrections, additions, or changes I deemed necessary as
7	noted above to be appended hereto, and that the same is
8	a true, correct and complete transcript of the testimony
9	given by me.
10	
11	
12	Ron Najafi, PhD Date
13	*If notary is required
14	SUBSCRIBED AND SWORN TO BEFORE ME THIS
15	, DAY OF, 20
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# Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE ABOVE RULES ARE CURRENT AS OF APRIL 1, 2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

# VERITEXT LEGAL SOLUTIONS COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the foregoing transcript is a true, correct and complete transcript of the colloquies, questions and answers as submitted by the court reporter. Veritext Legal Solutions further represents that the attached exhibits, if any, are true, correct and complete documents as submitted by the court reporter and/or attorneys in relation to this deposition and that the documents were processed in accordance with our litigation support and production standards.

Veritext Legal Solutions is committed to maintaining the confidentiality of client and witness information, in accordance with the regulations promulgated under the Health Insurance Portability and Accountability Act (HIPAA), as amended with respect to protected health information and the Gramm-Leach-Bliley Act, as amended, with respect to Personally Identifiable Information (PII). Physical transcripts and exhibits are managed under strict facility and personnel access controls. Electronic files of documents are stored in encrypted form and are transmitted in an encrypted fashion to authenticated parties who are permitted to access the material. Our data is hosted in a Tier 4 SSAE 16 certified facility.

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